

Fig.1

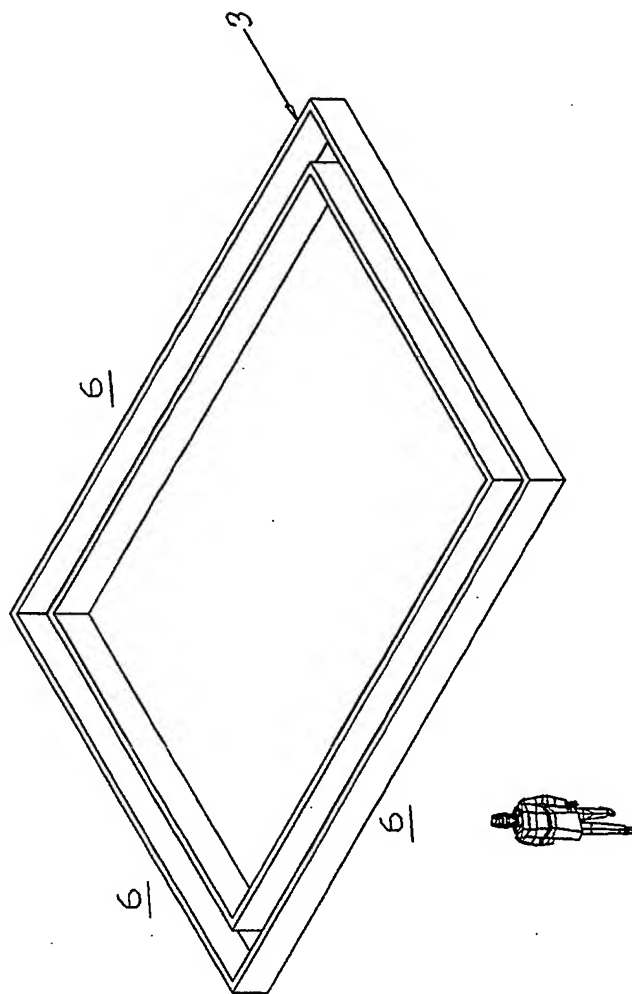


Fig. 2

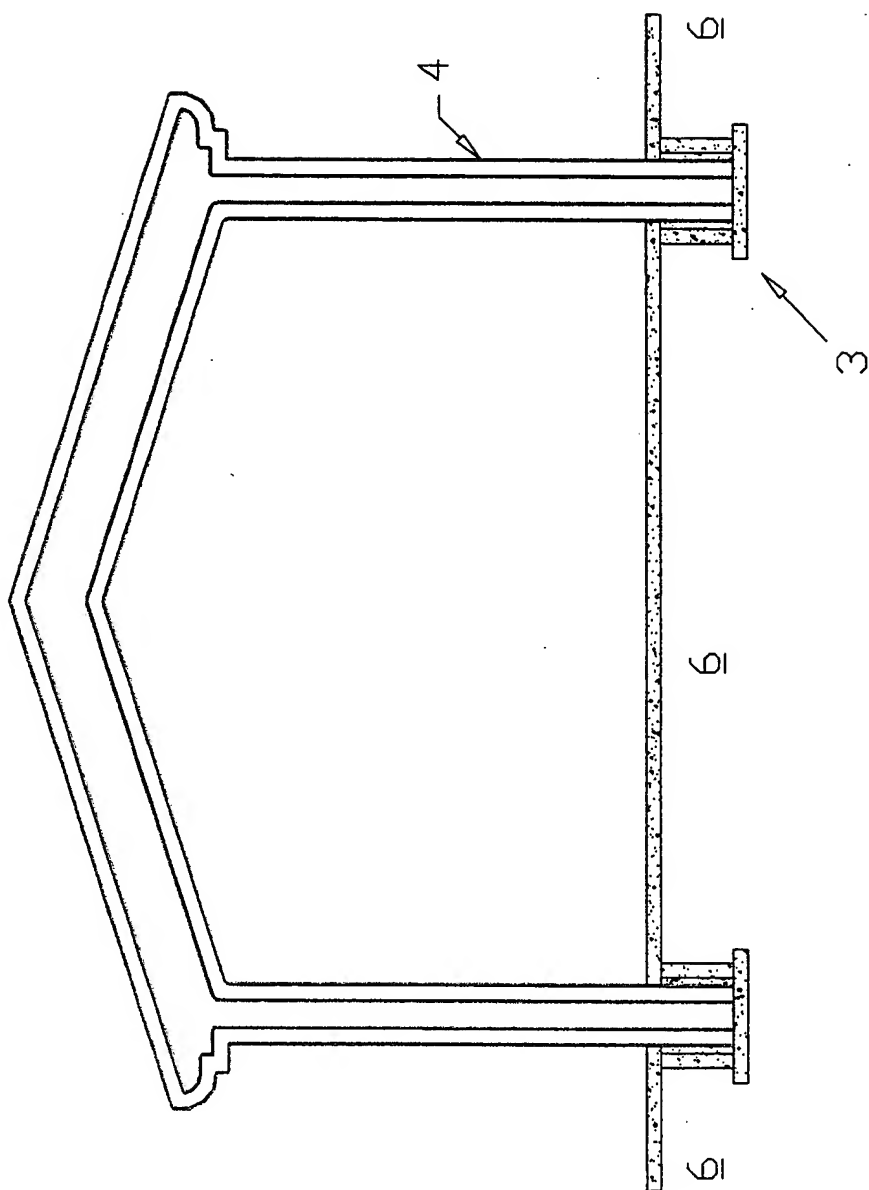


Fig. 3

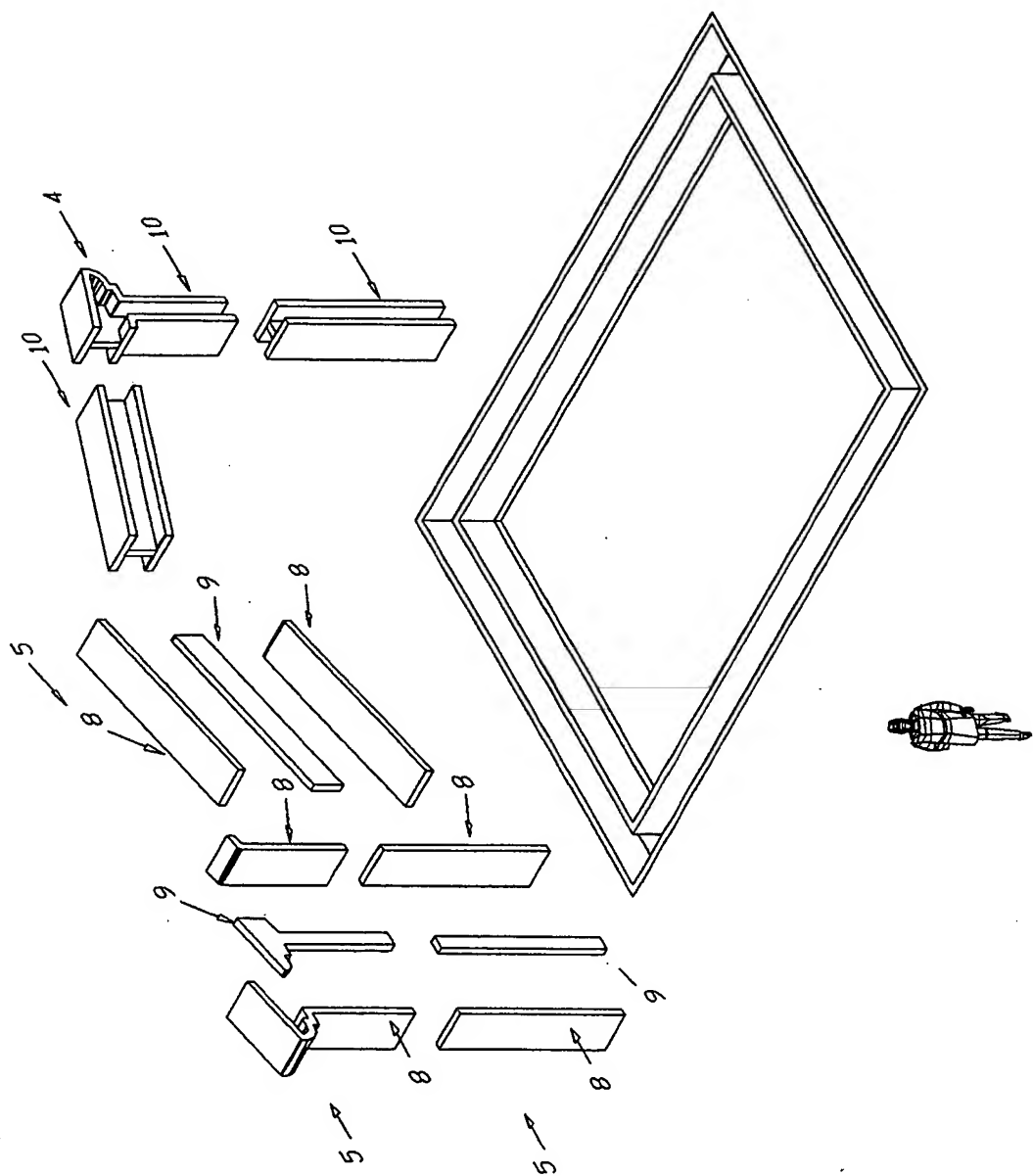


Fig.4

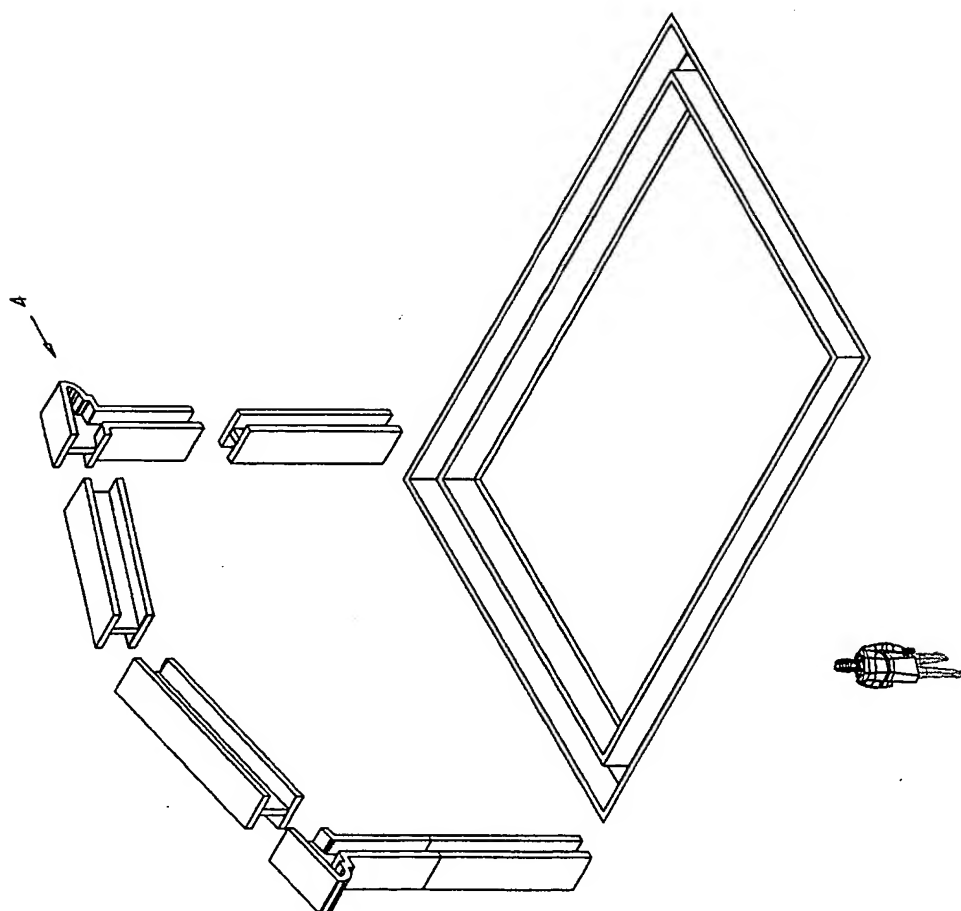


Fig.5

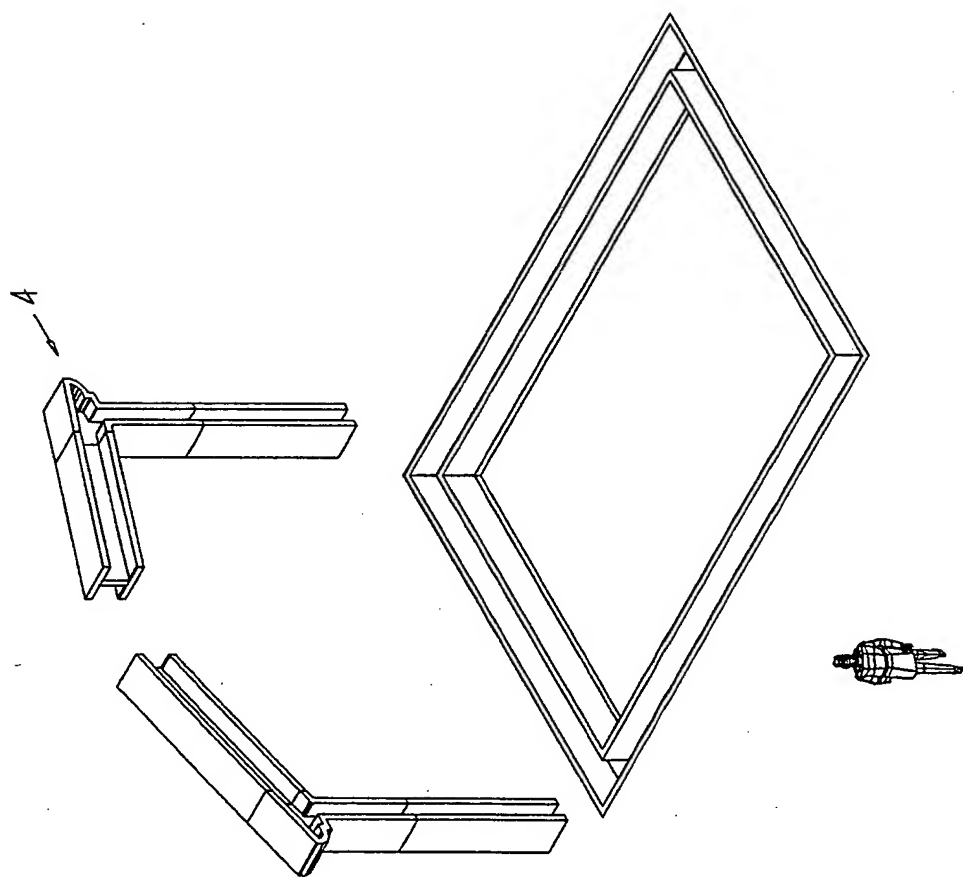


Fig. 6

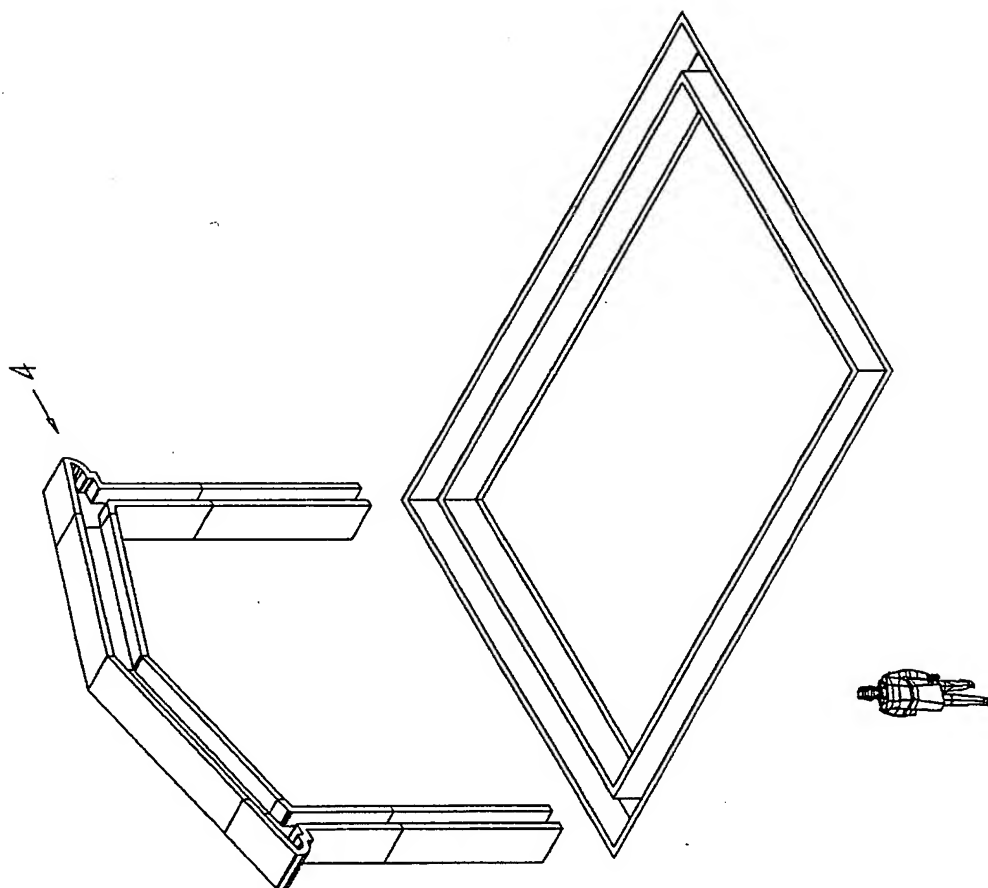


Fig. 7

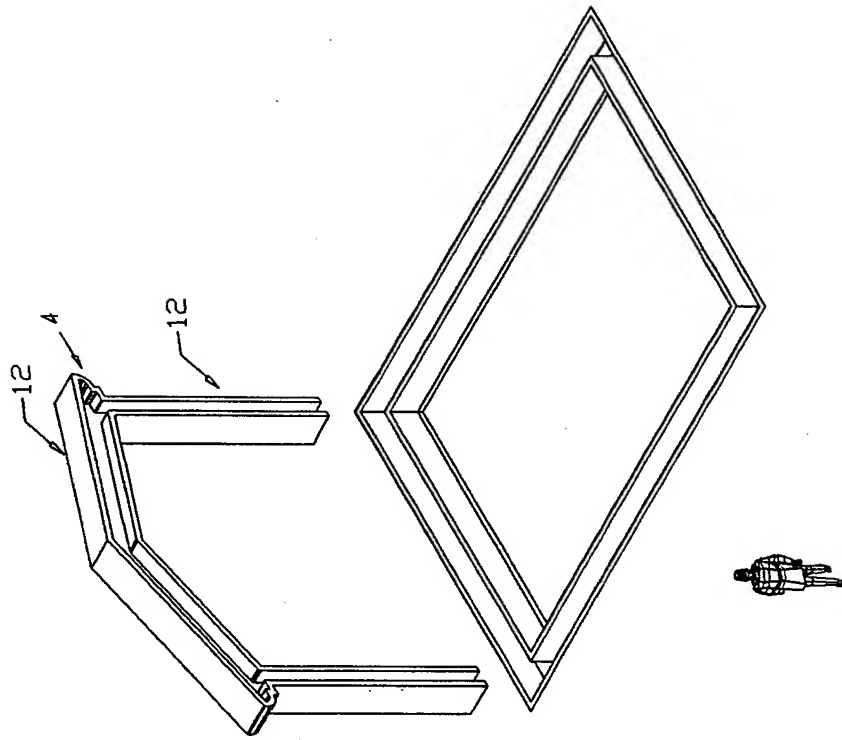


Fig. 8



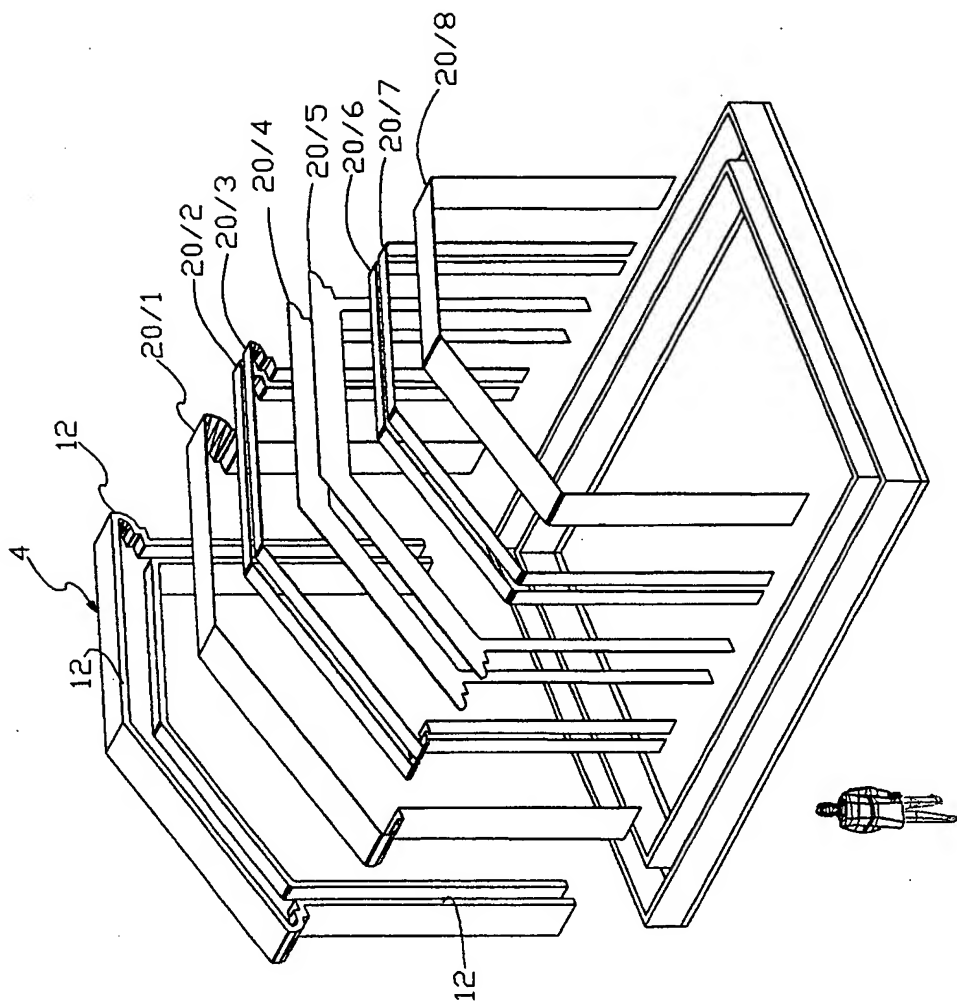


Fig. 9

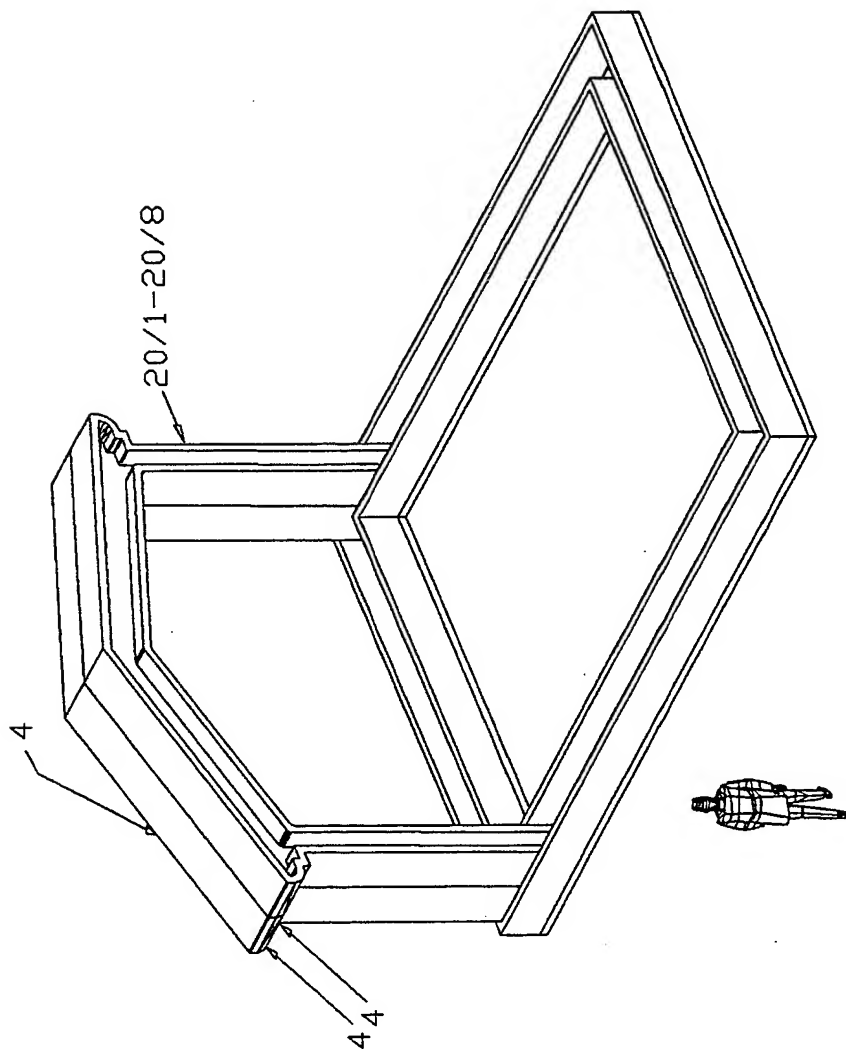


Fig.10

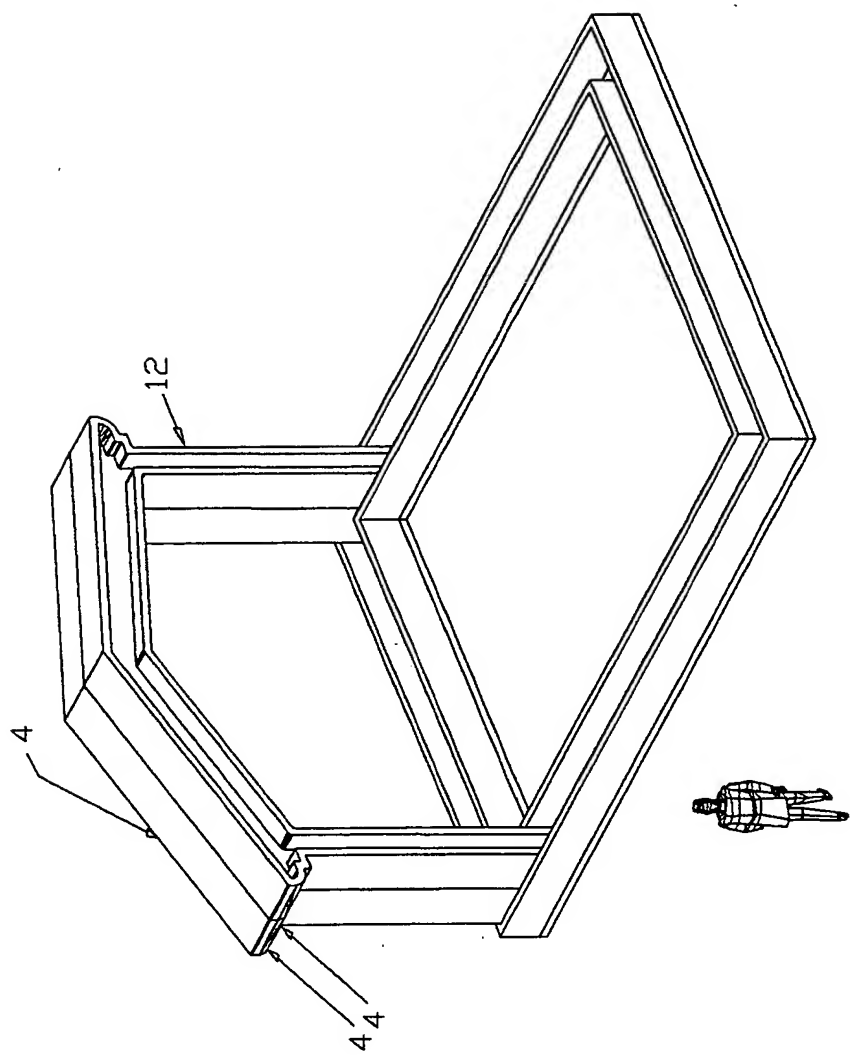


Fig.11

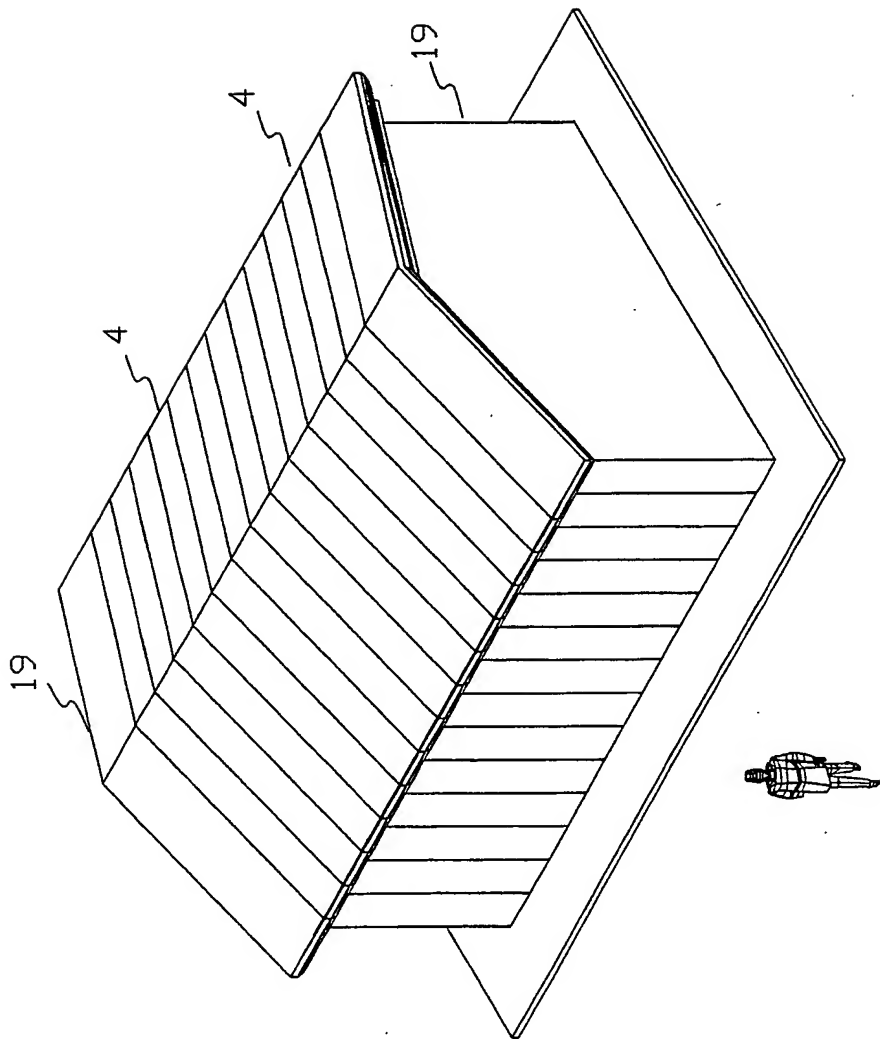


Fig.12

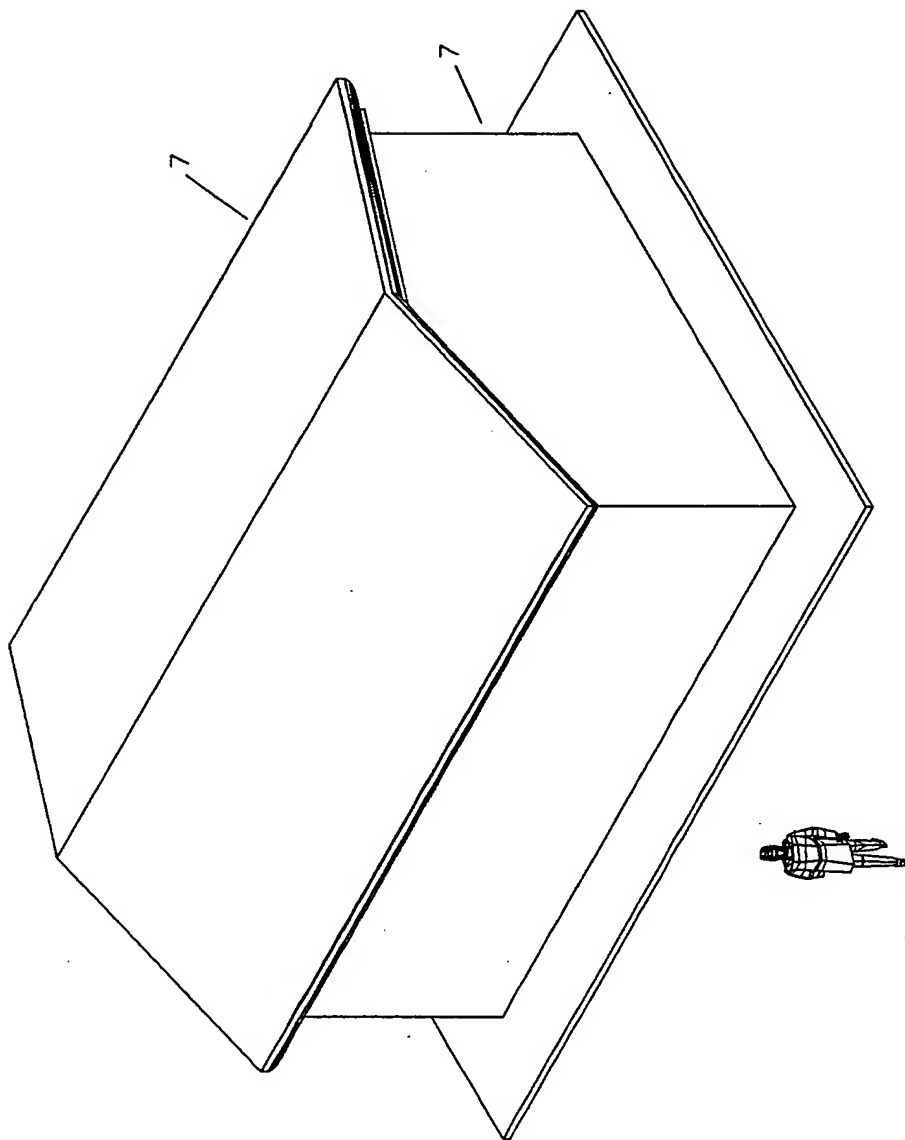


Fig.13

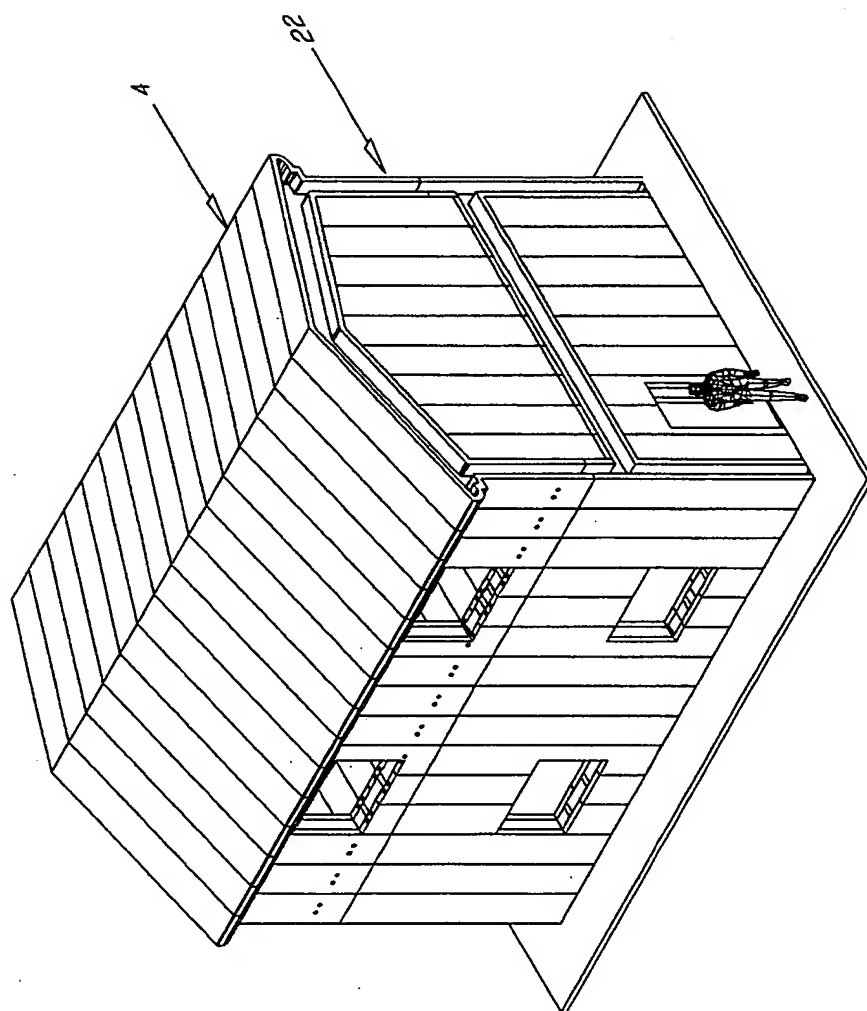


Fig.14

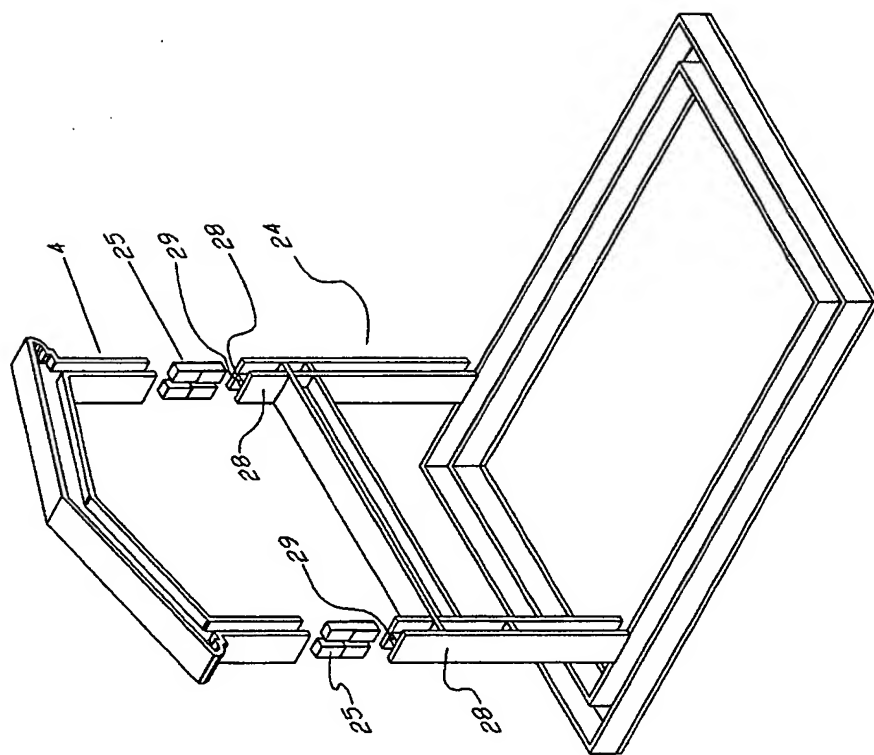


Fig.15

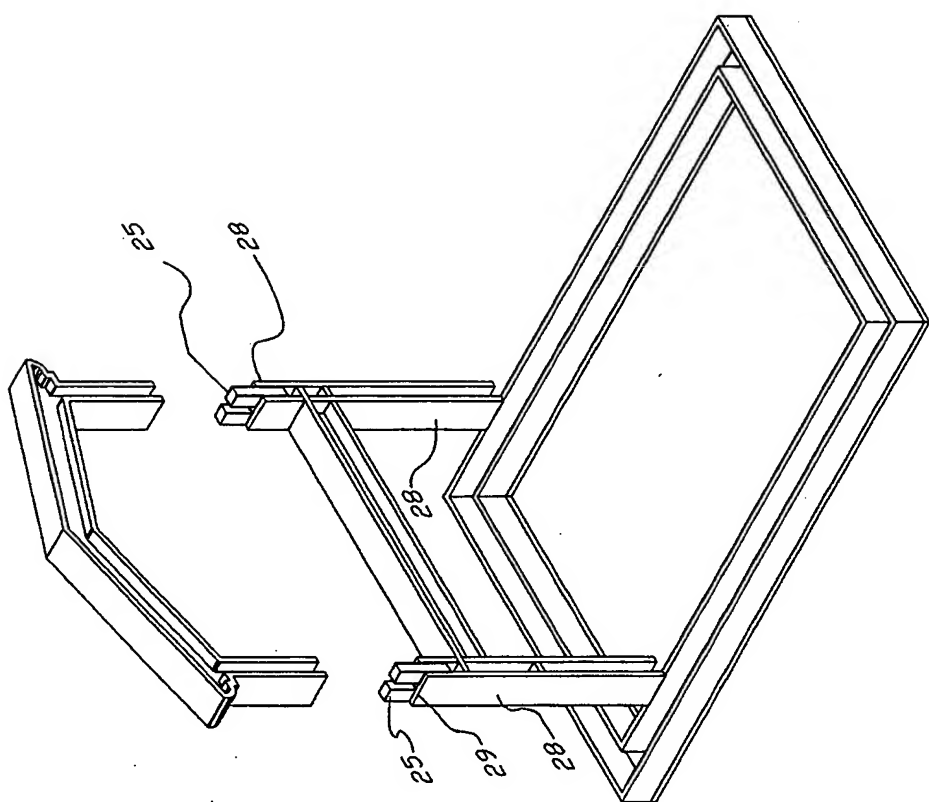


Fig.16



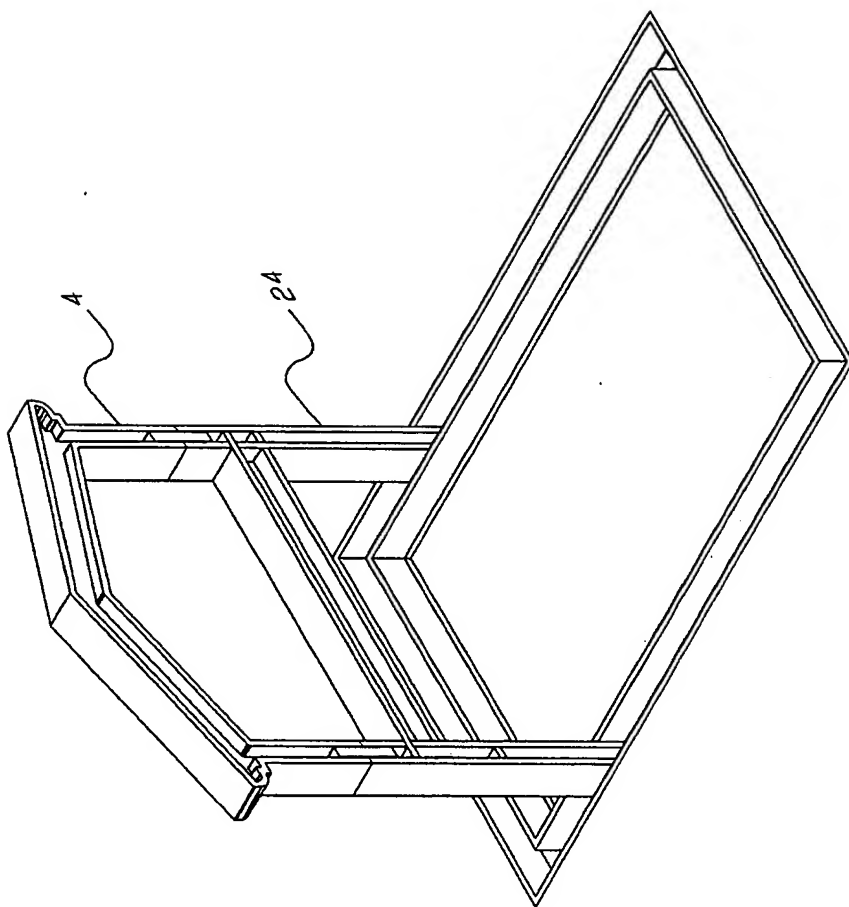


Fig.17

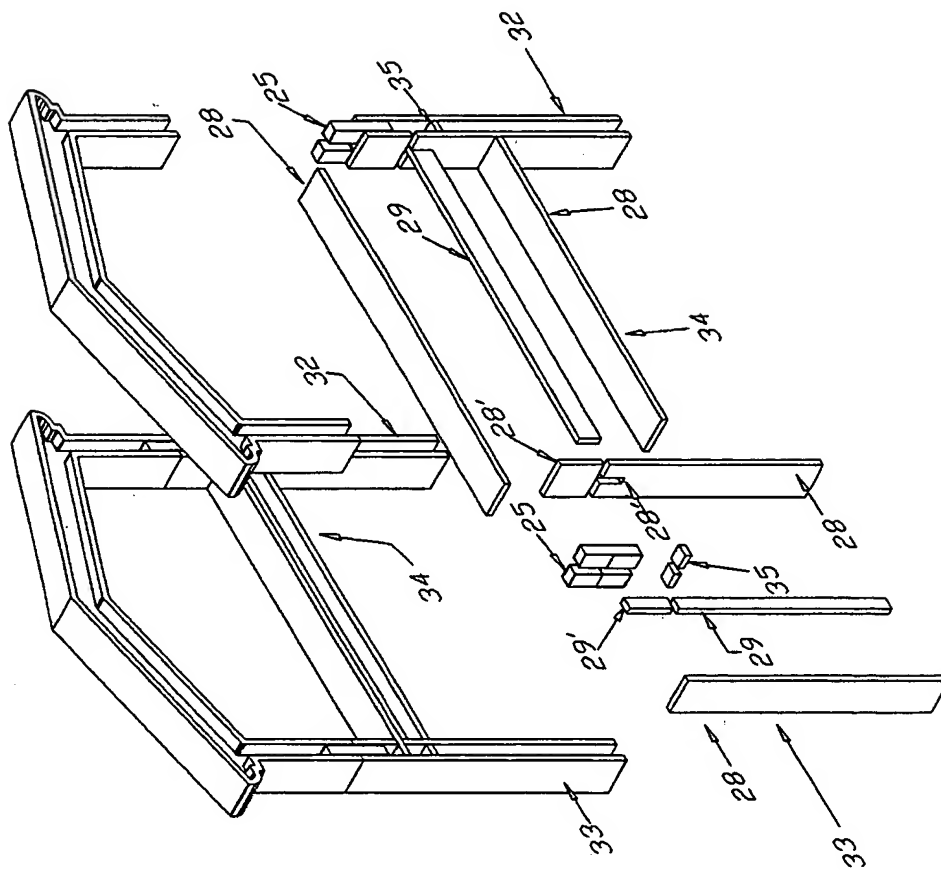


Fig.18

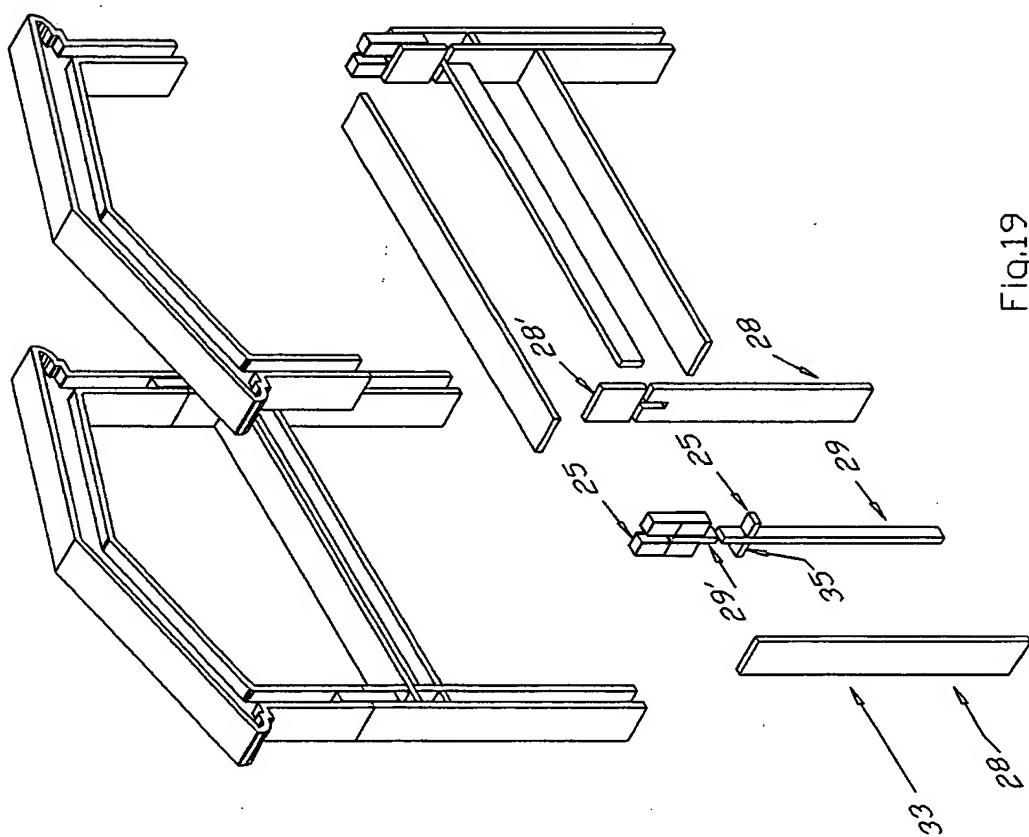


Fig. 19

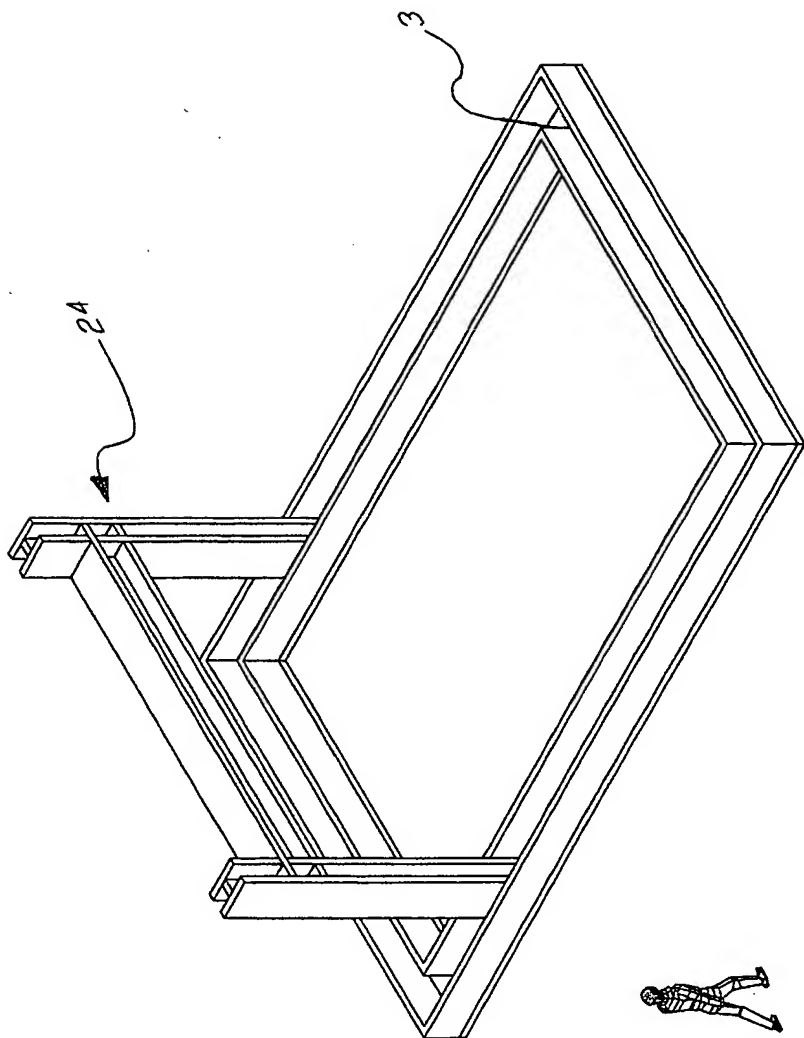


Fig. 20

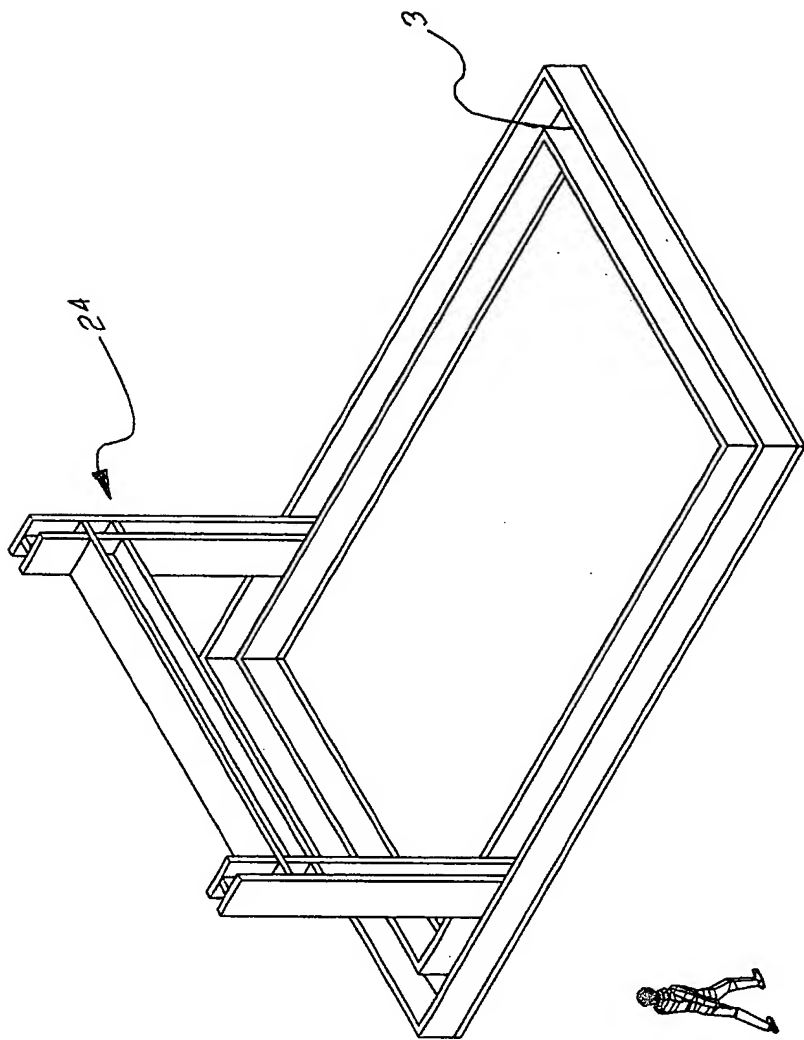


Fig. 21

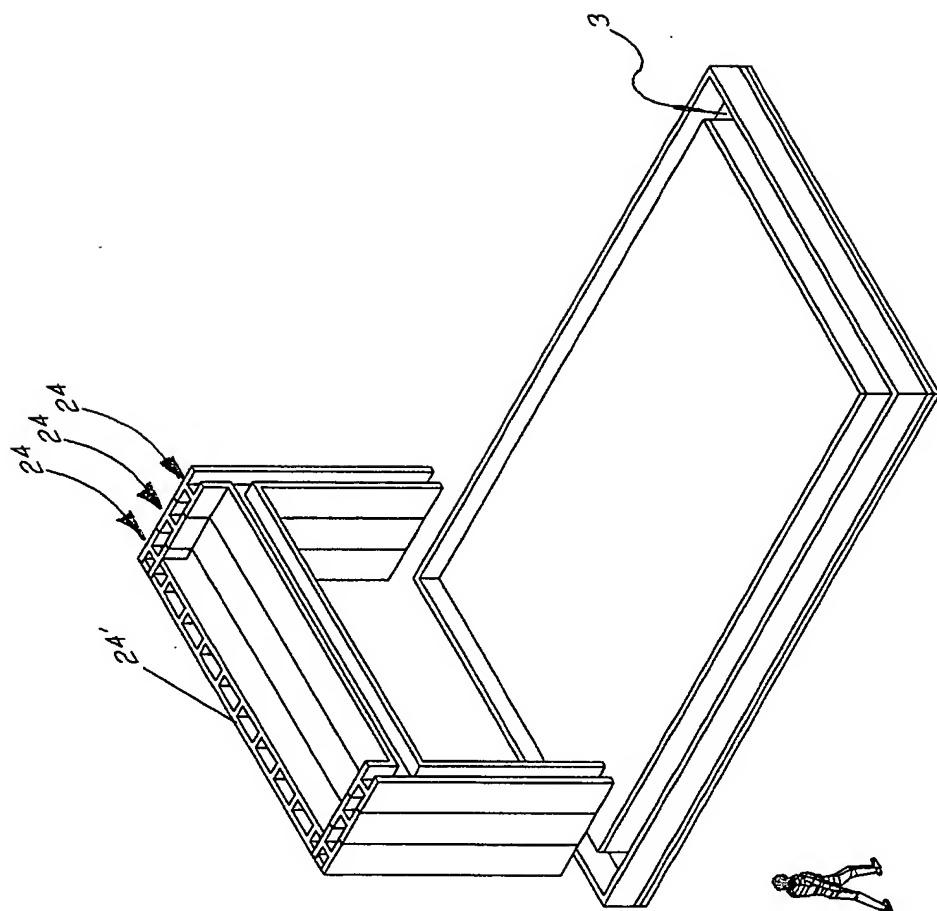


Fig. 22

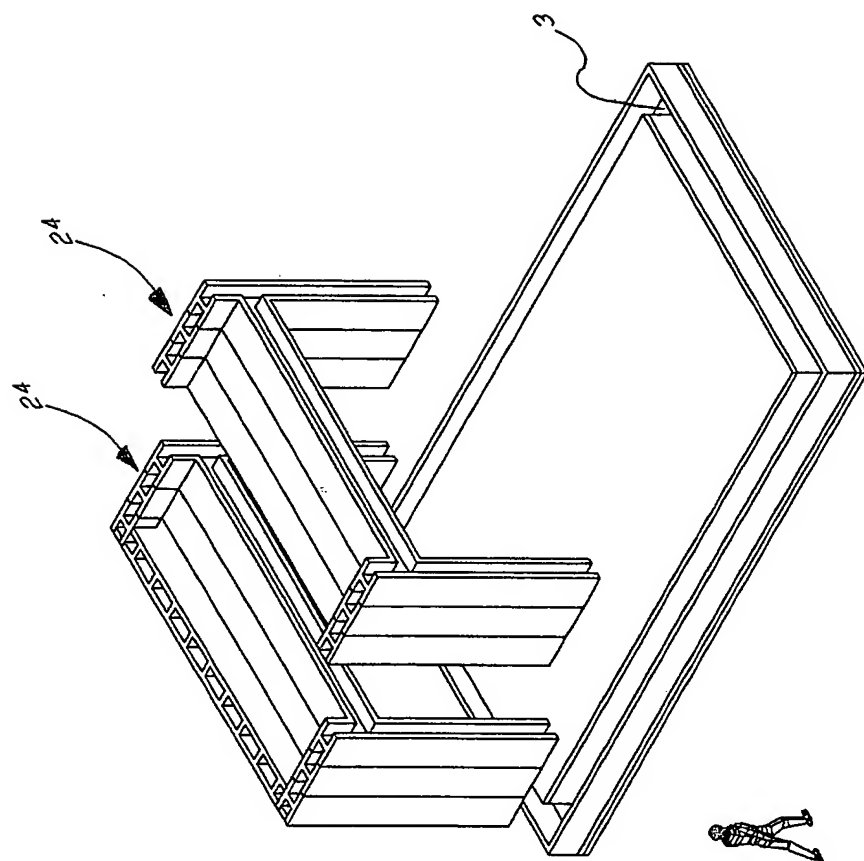


Fig. 23

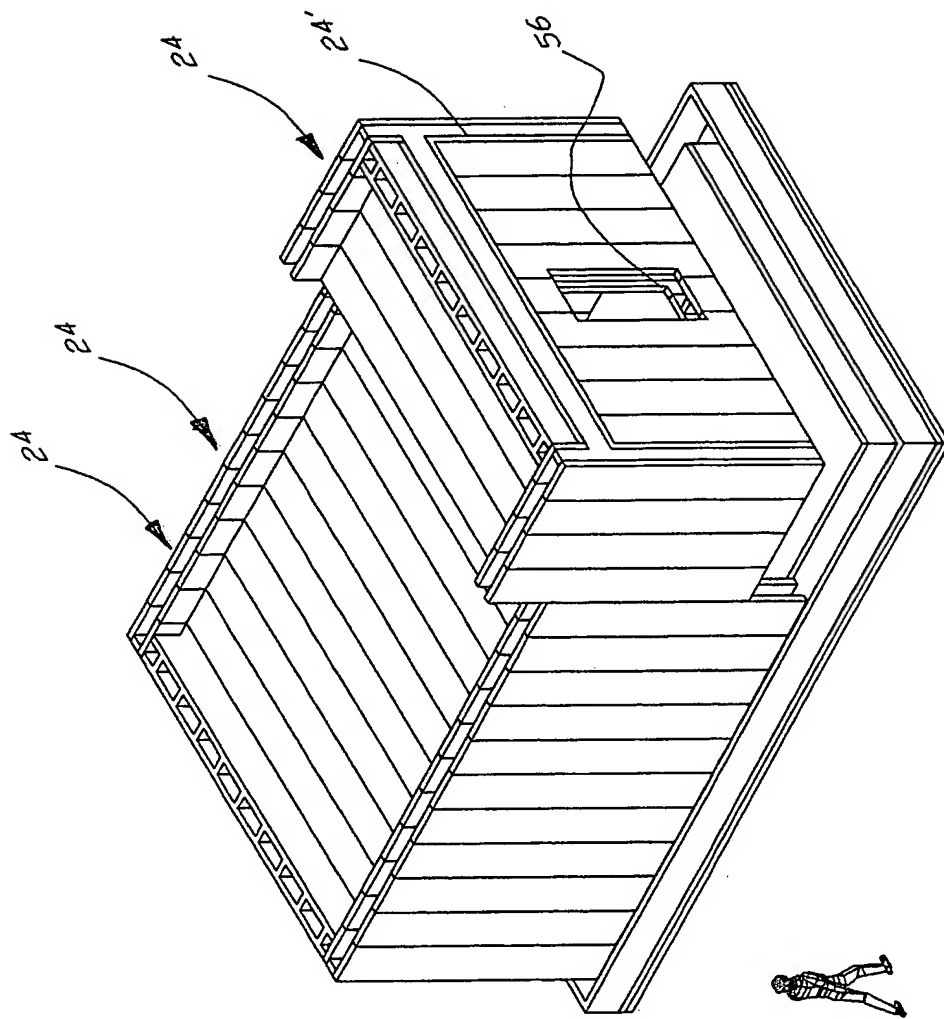


Fig. 24



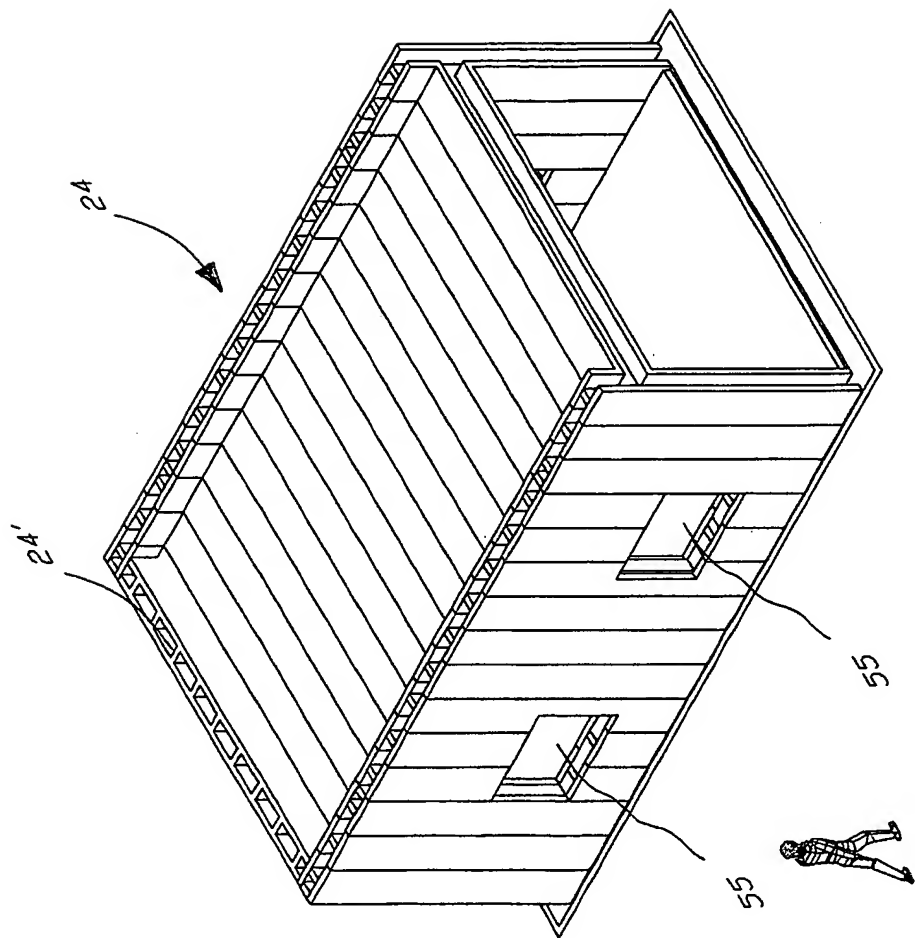


Fig.25

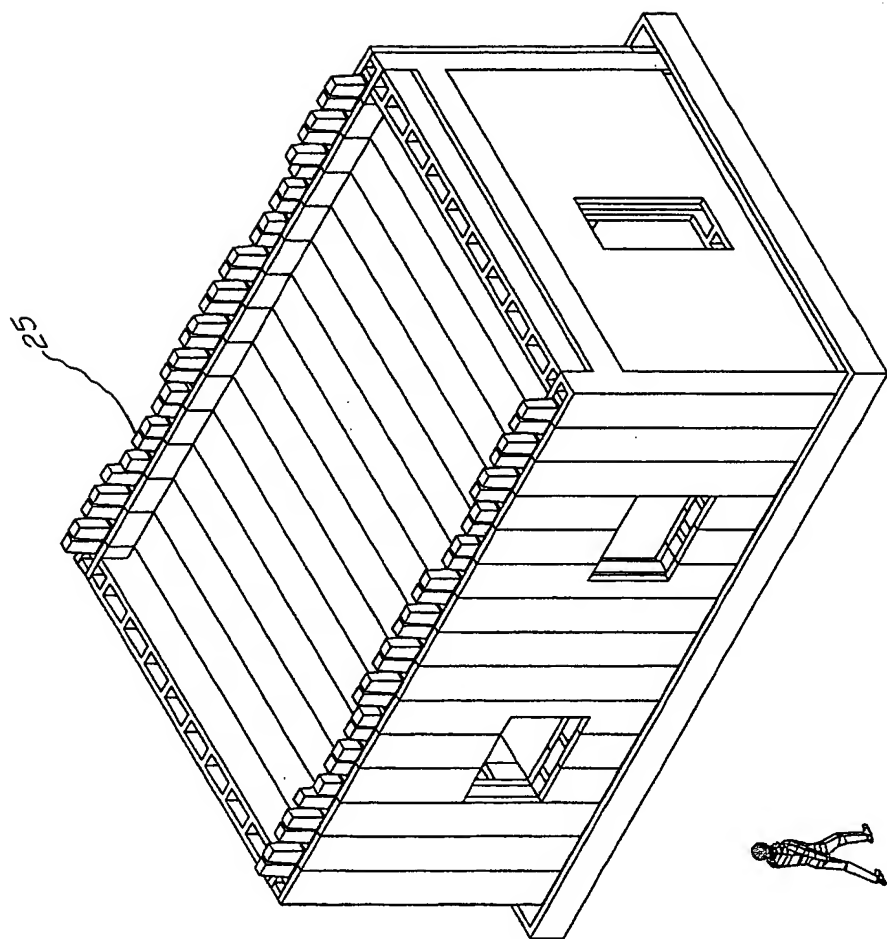


Fig.26

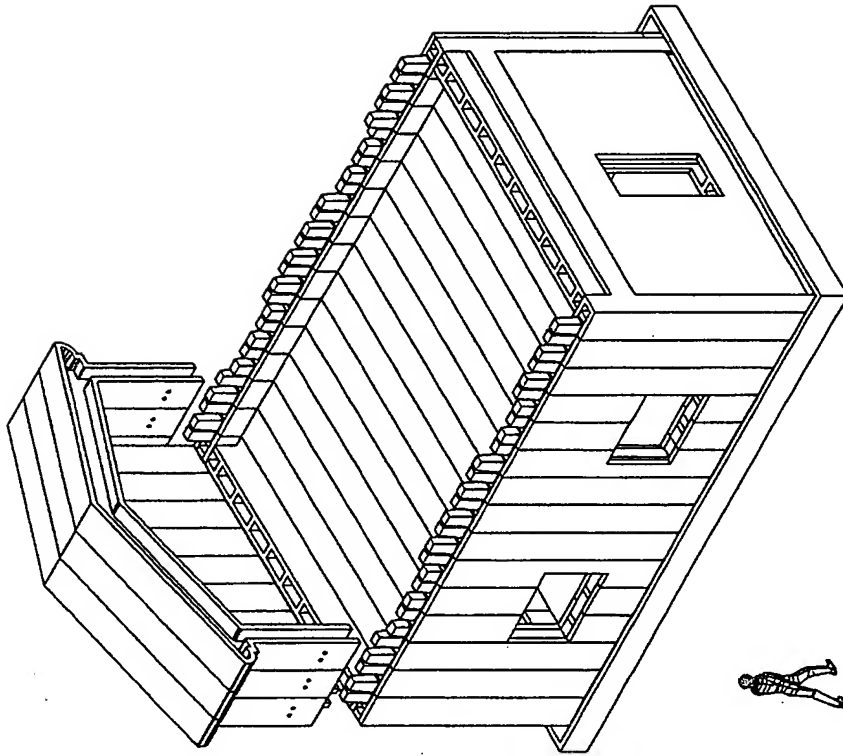


Fig. 27

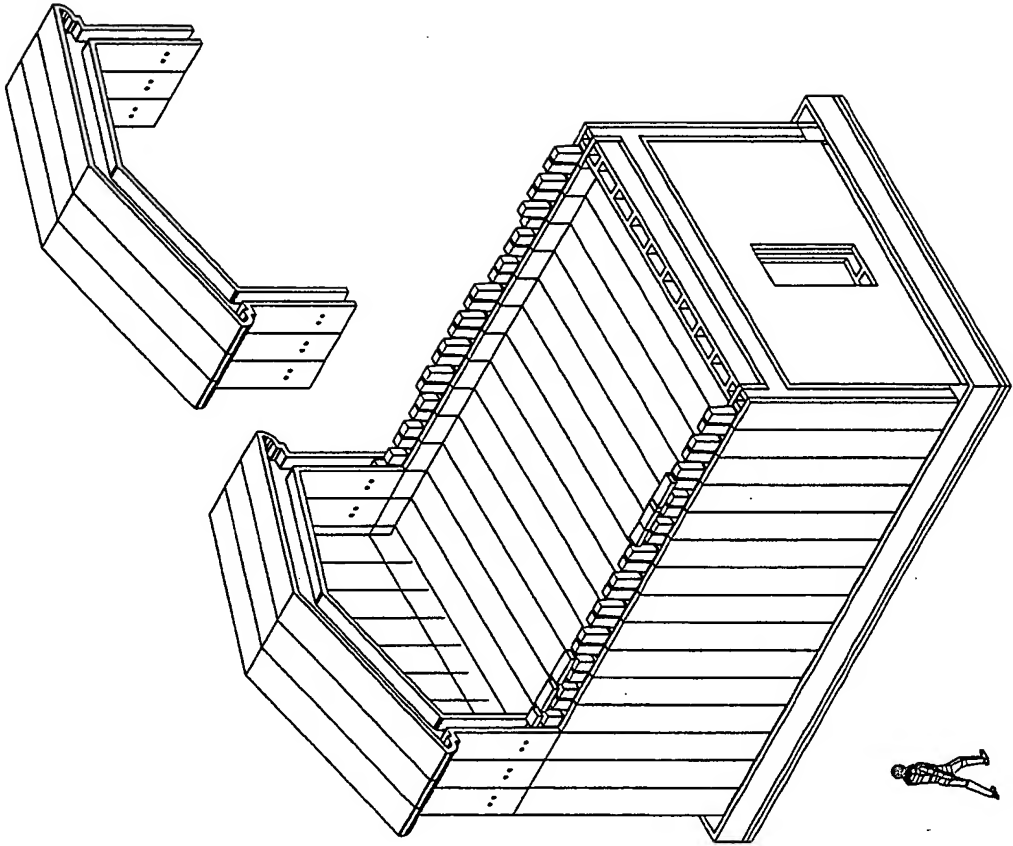


Fig. 28

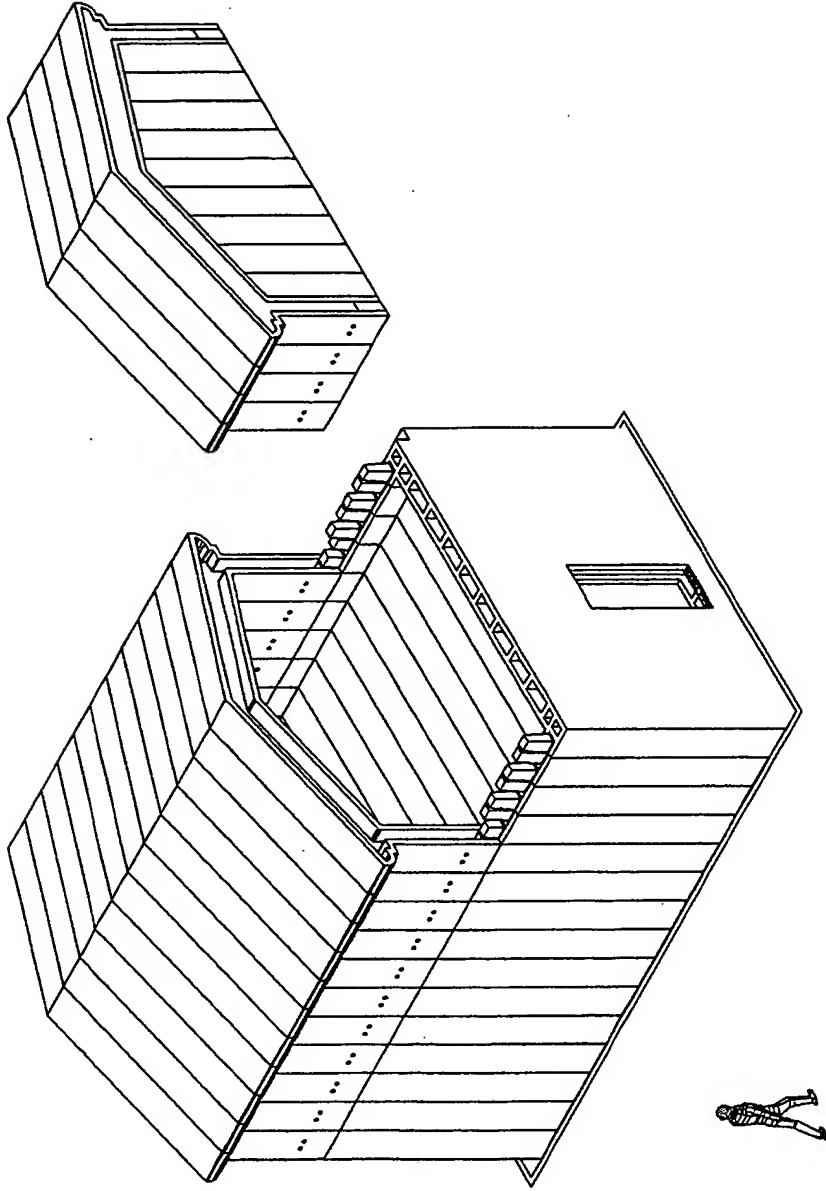


Fig.29

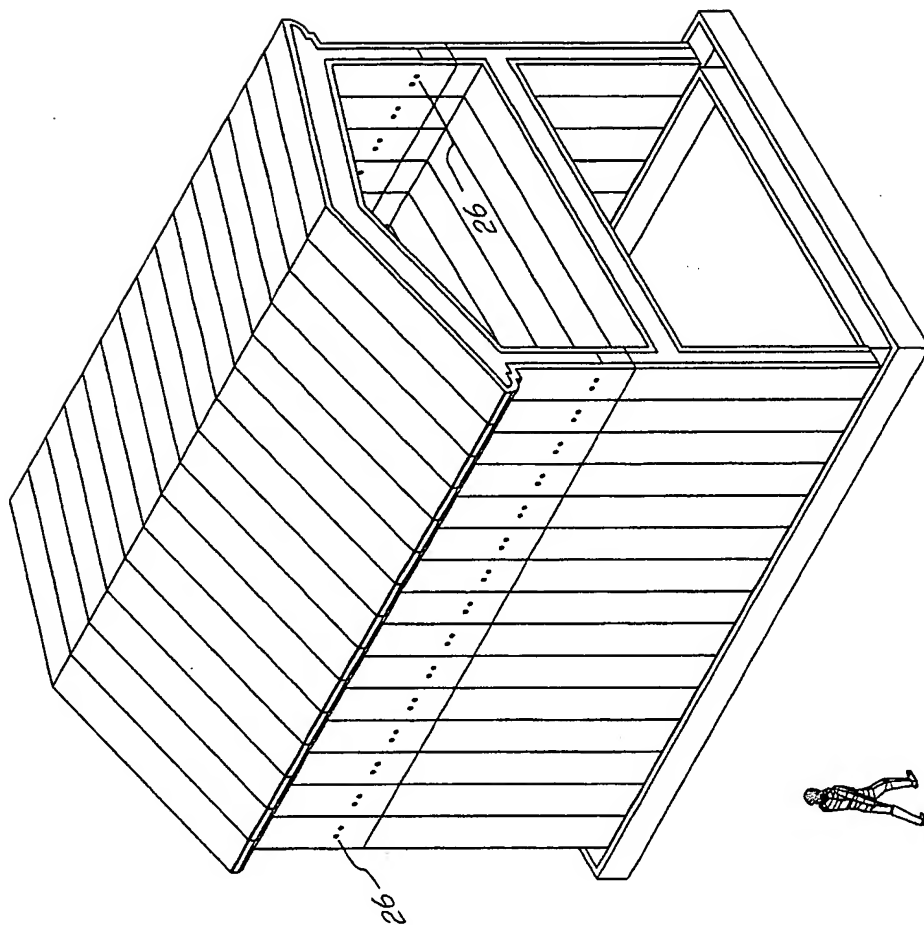


Fig. 29A

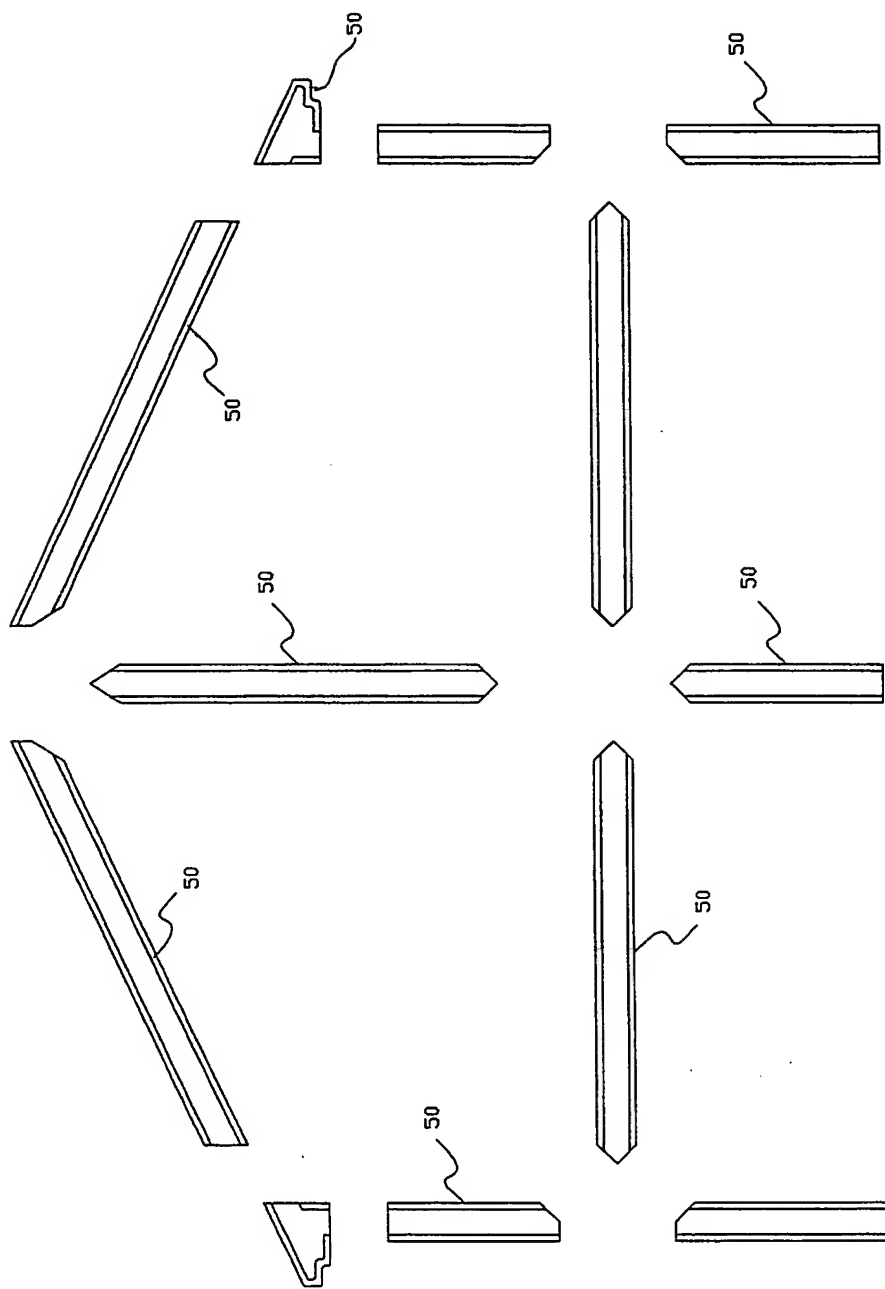


Fig. 30

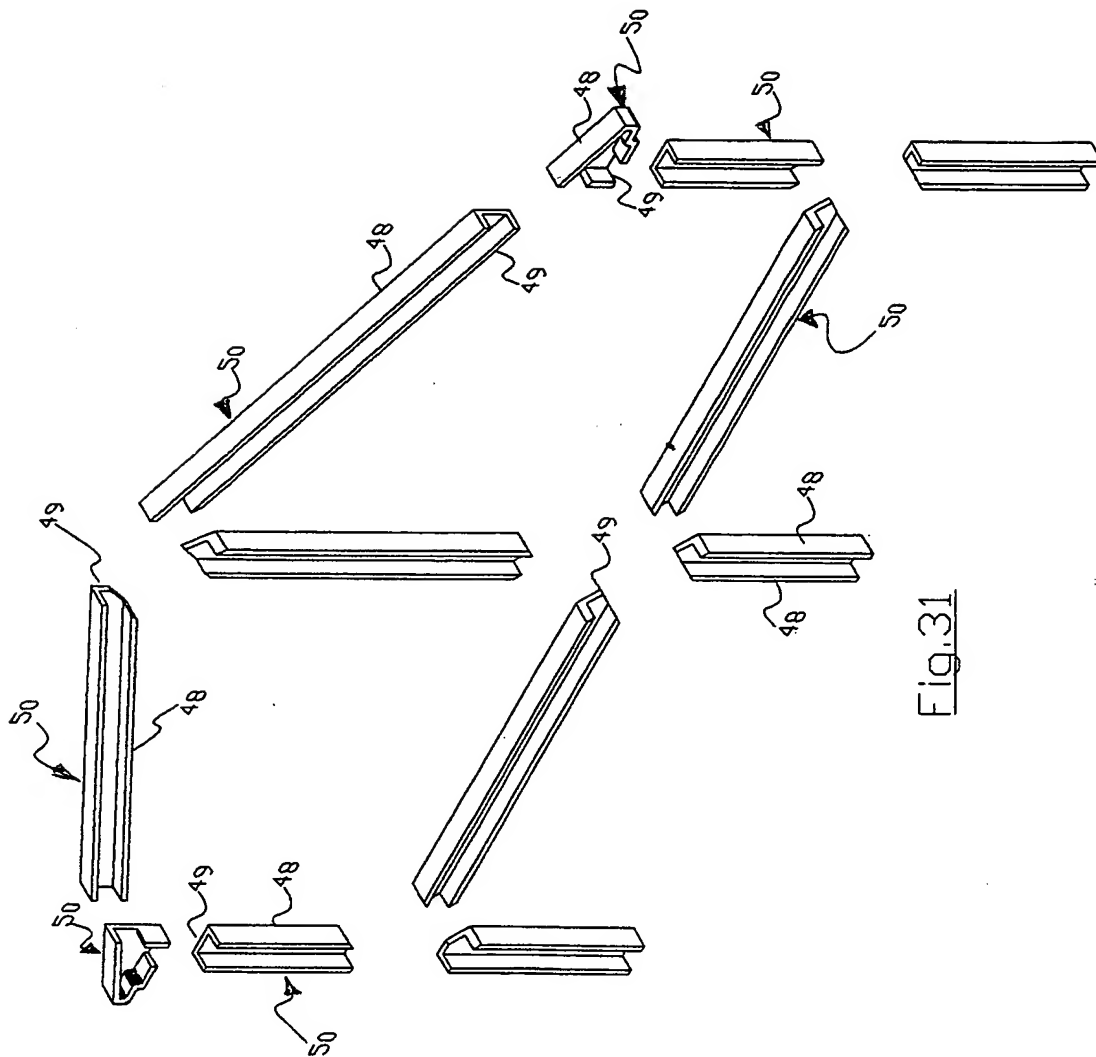


Fig.31



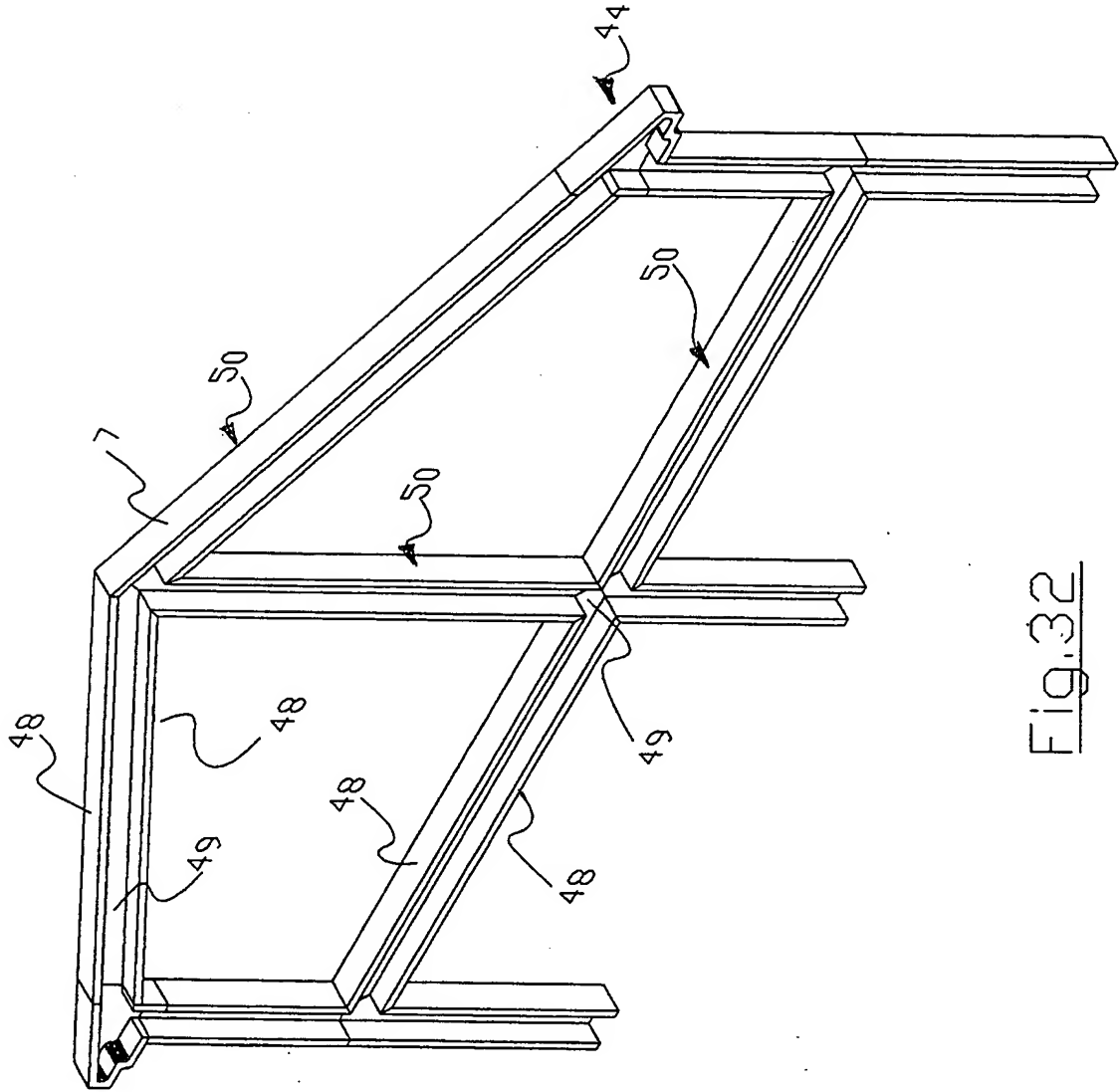


Fig. 32

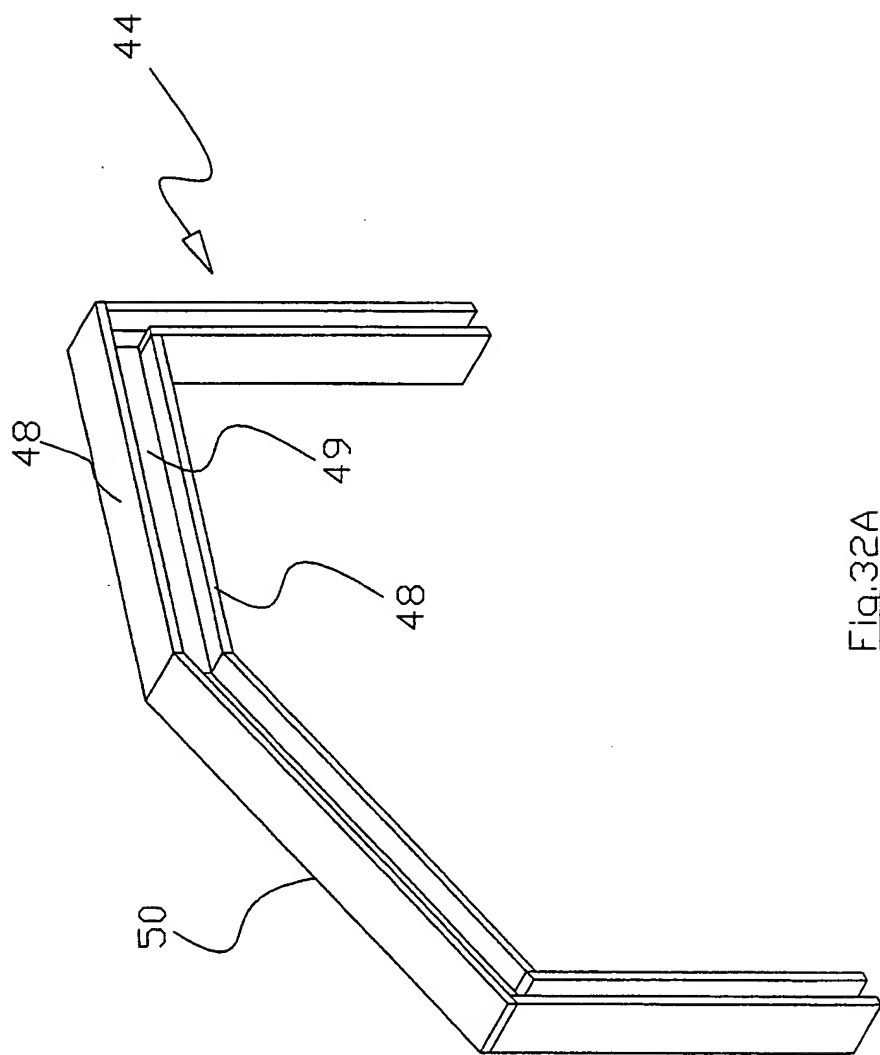


Fig. 32A

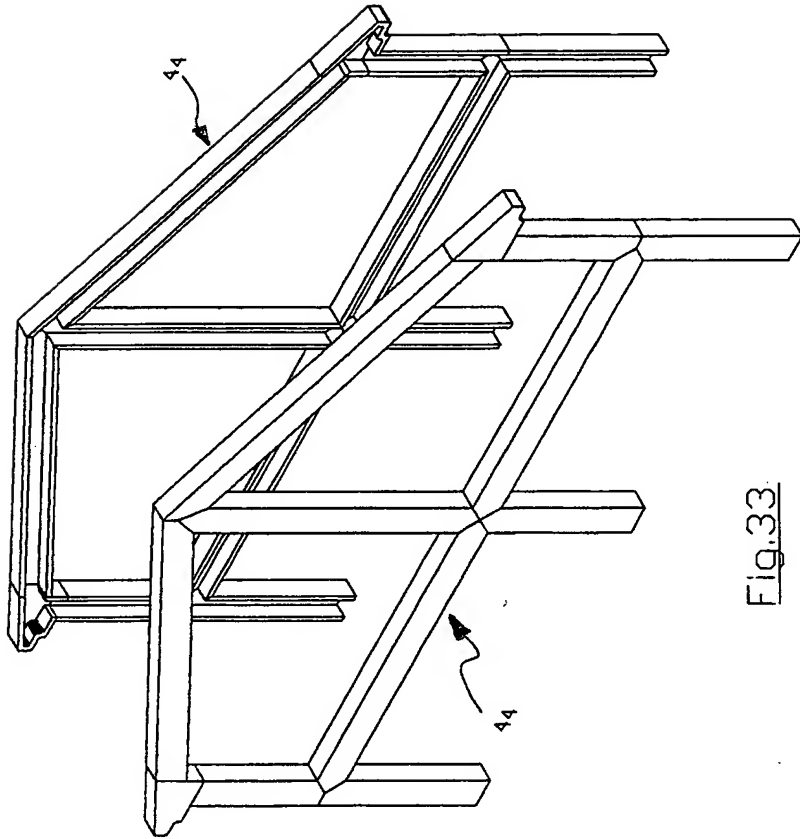


Fig. 33

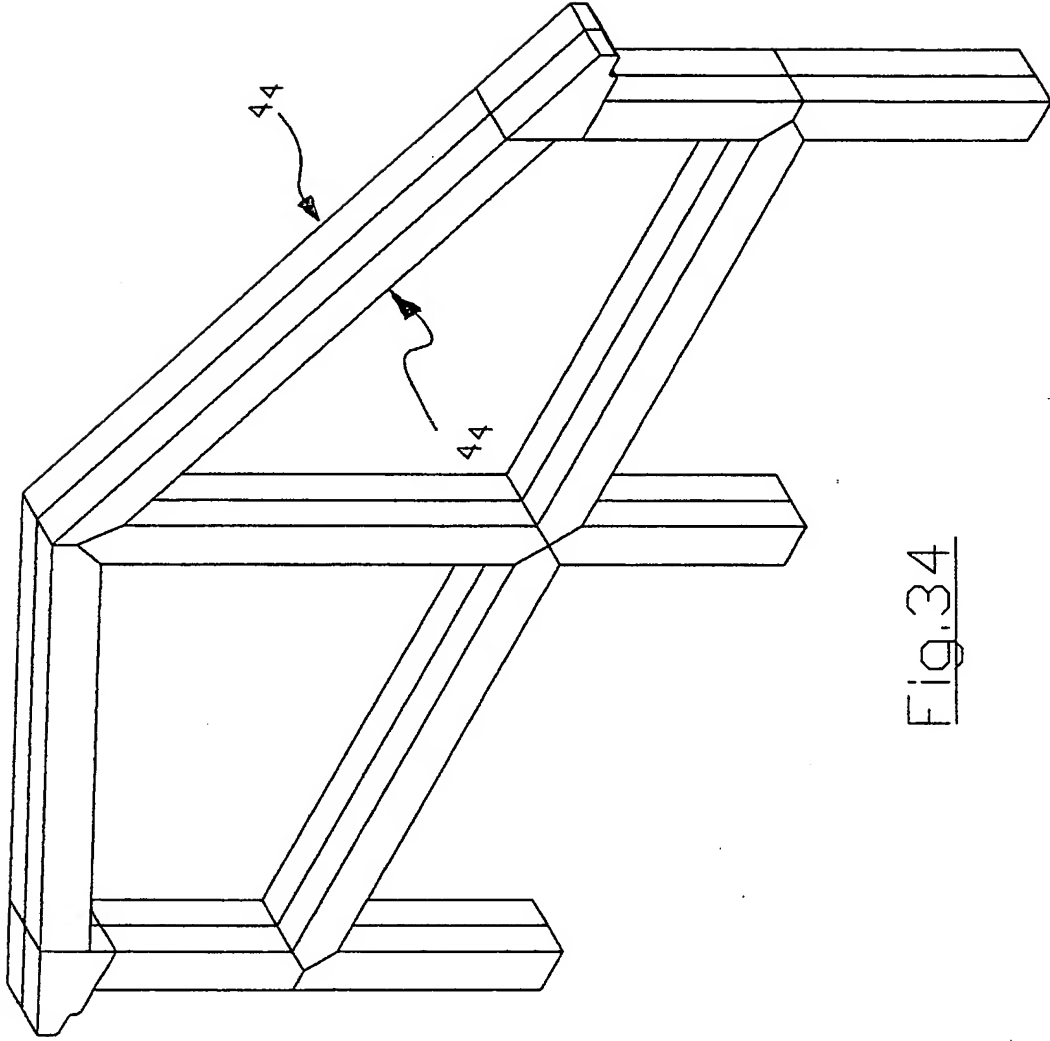


Fig. 34

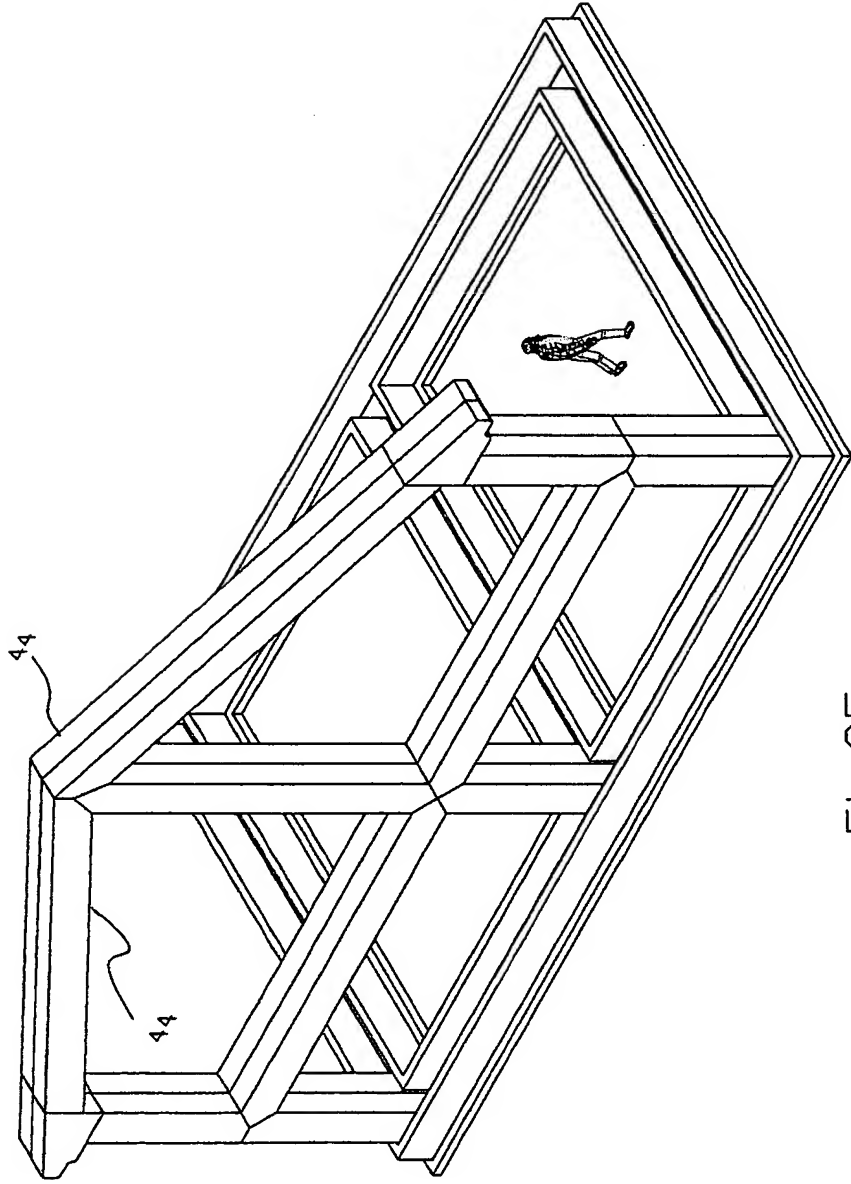


Fig. 35

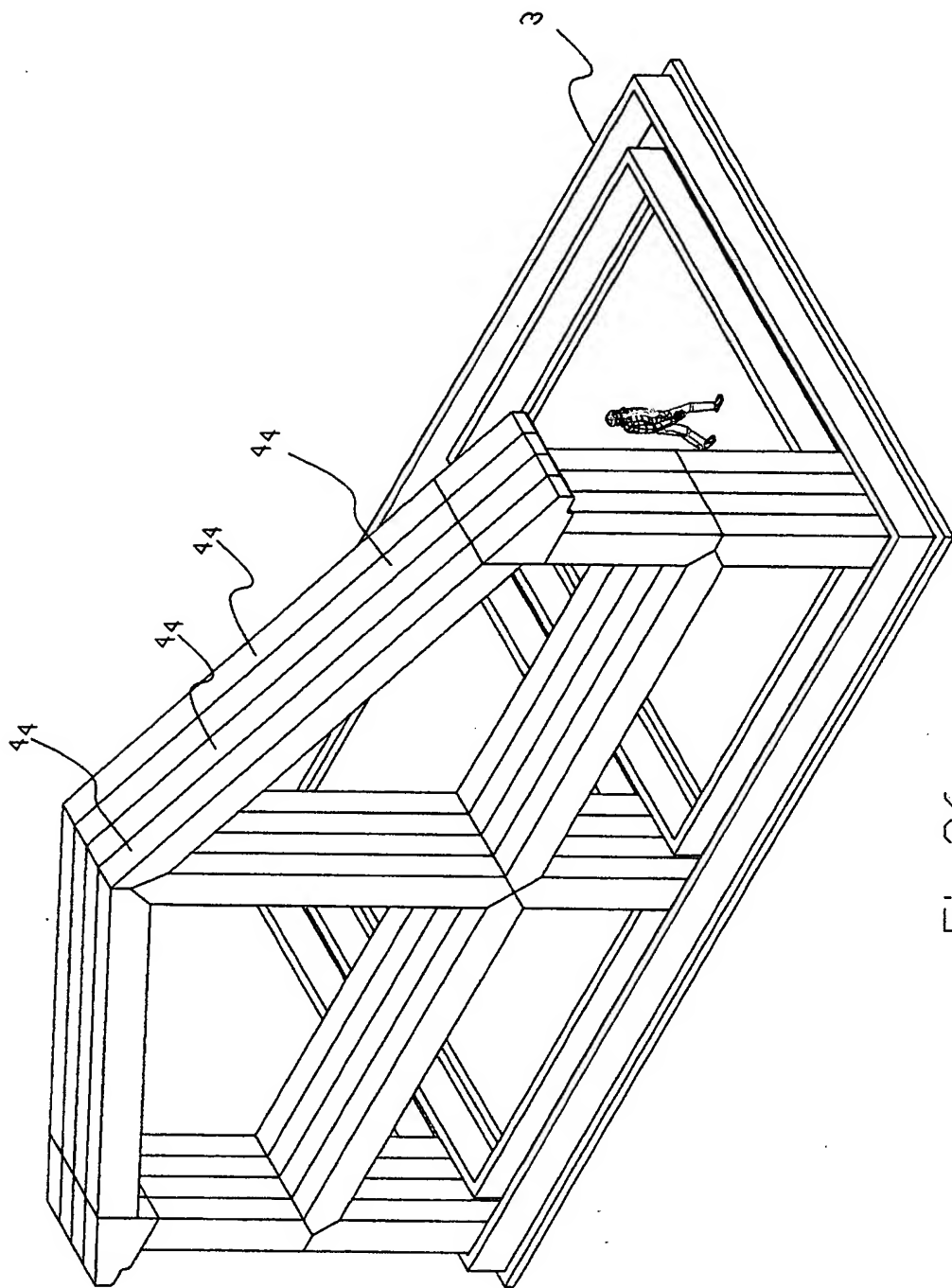


Fig. 36

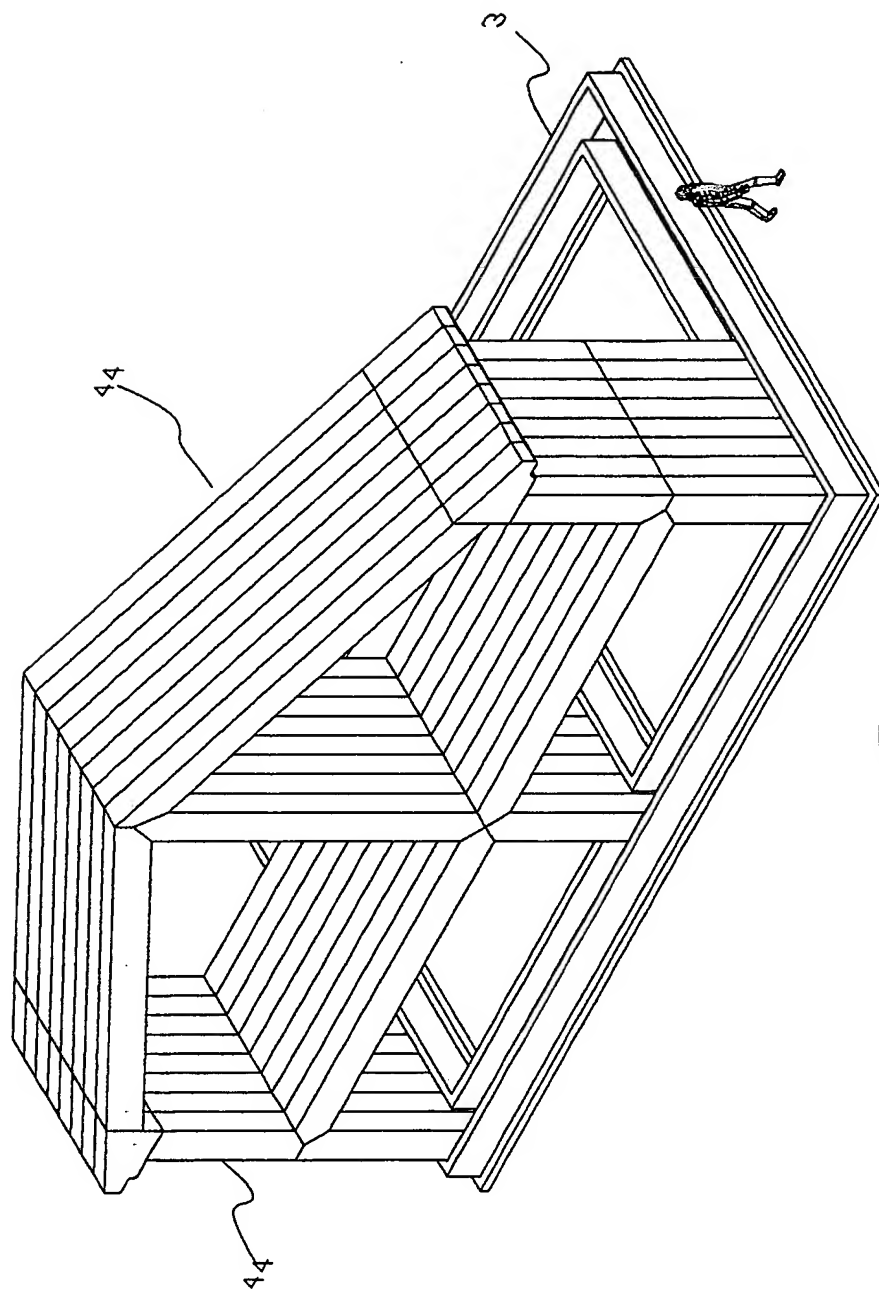


Fig. 37

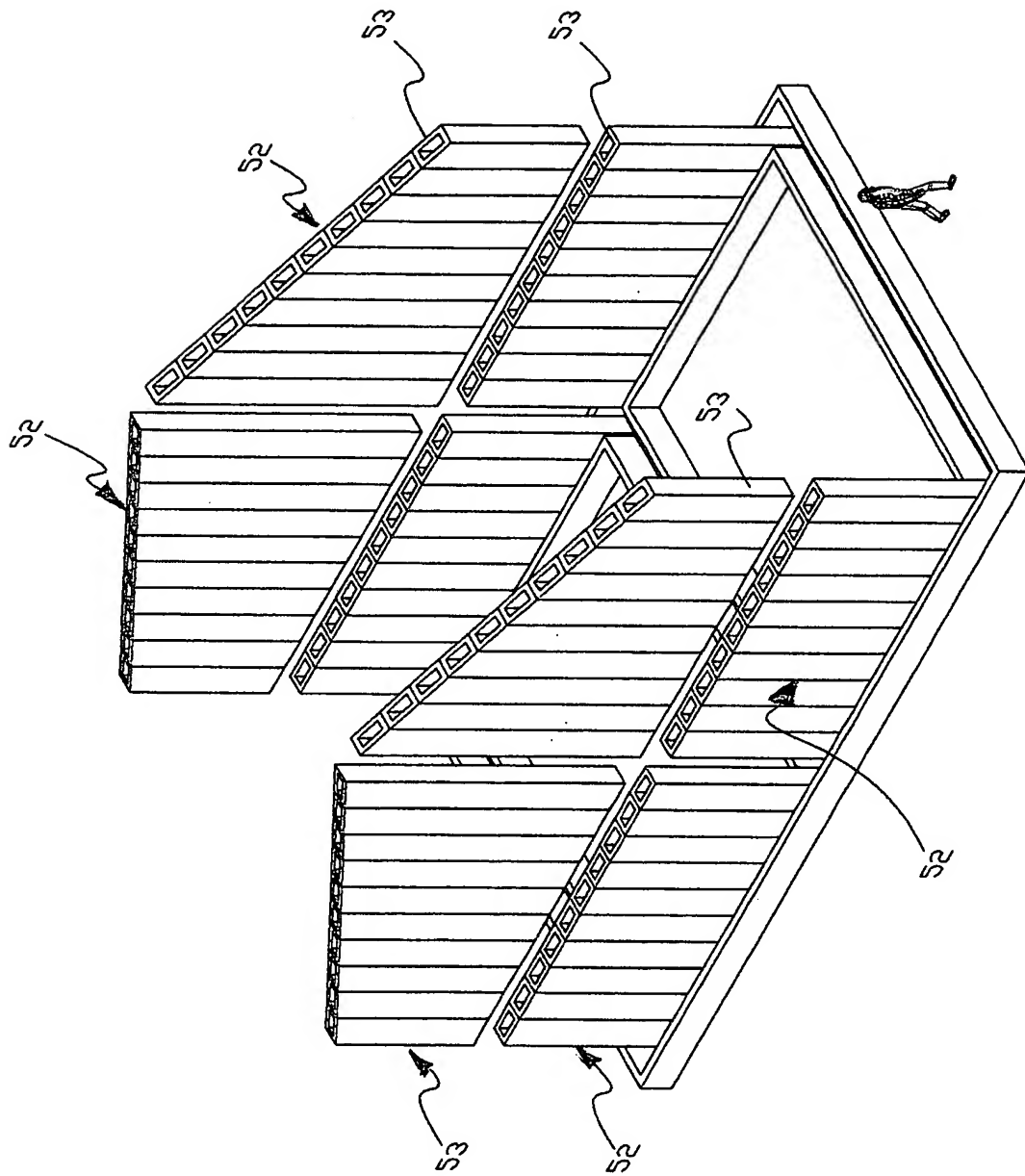


Fig.38



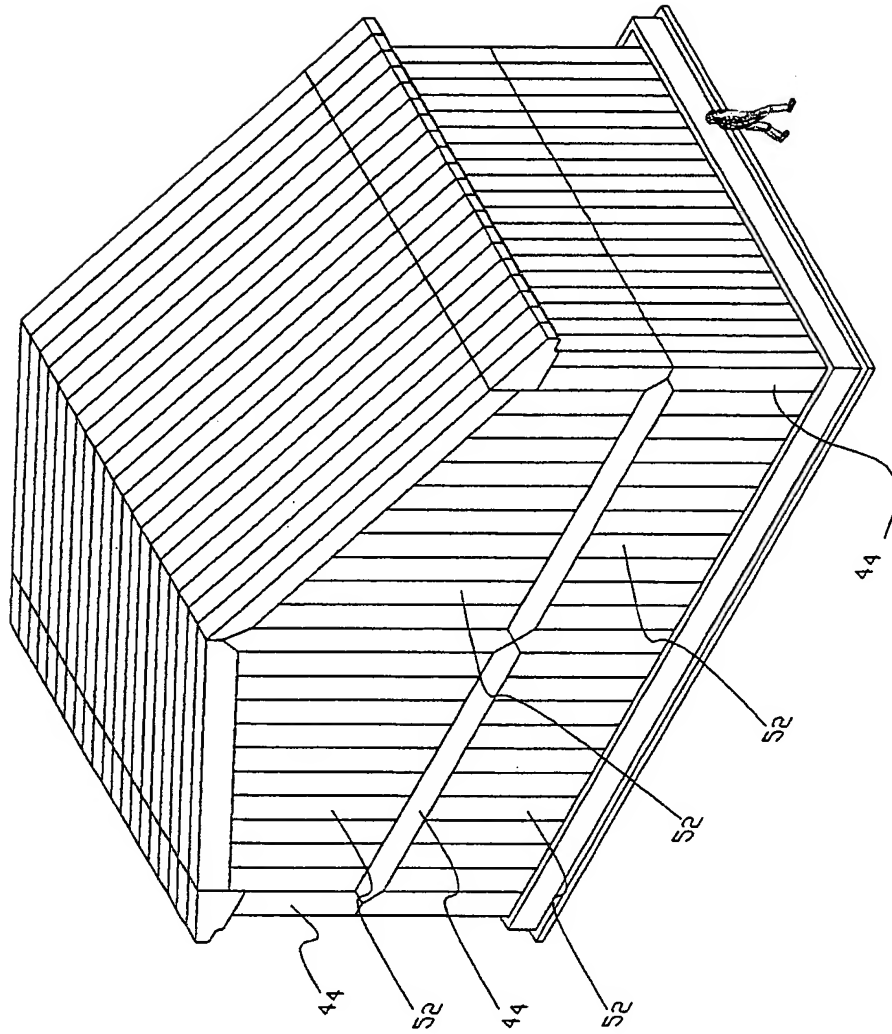


Fig.39

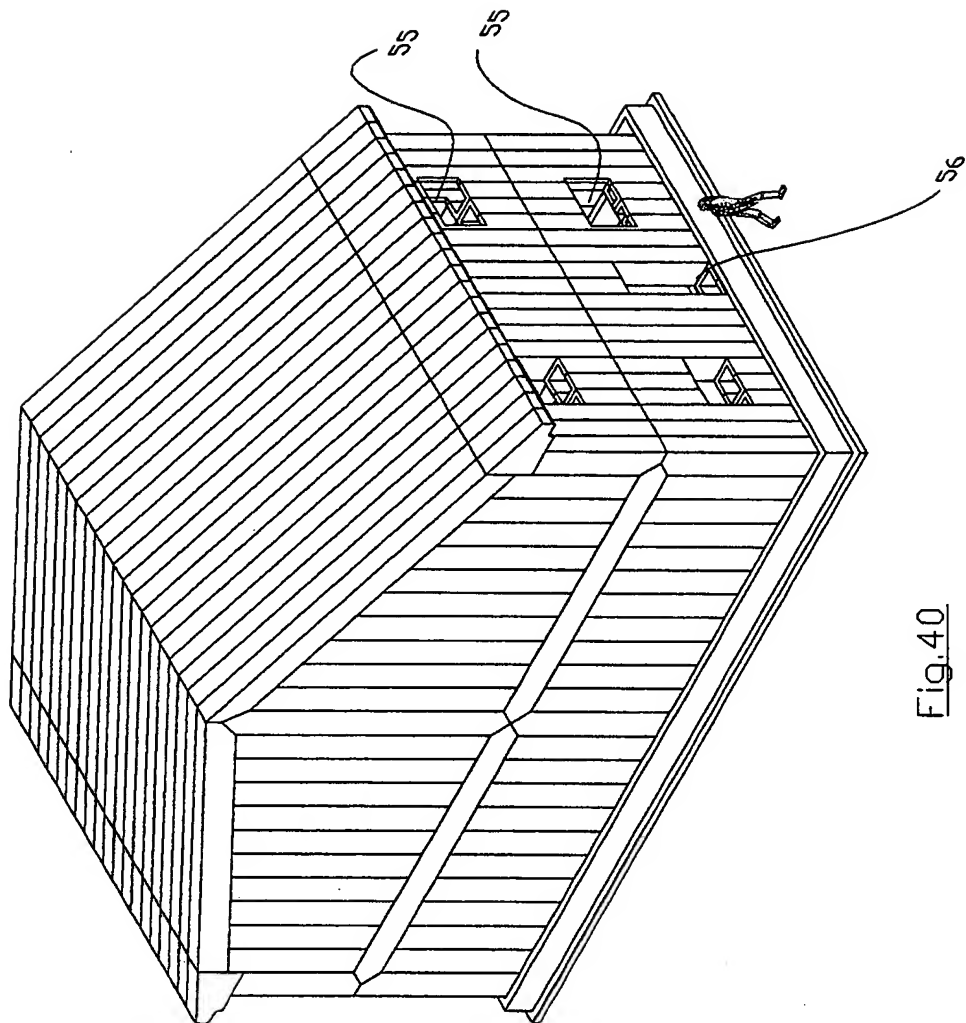


Fig. 40

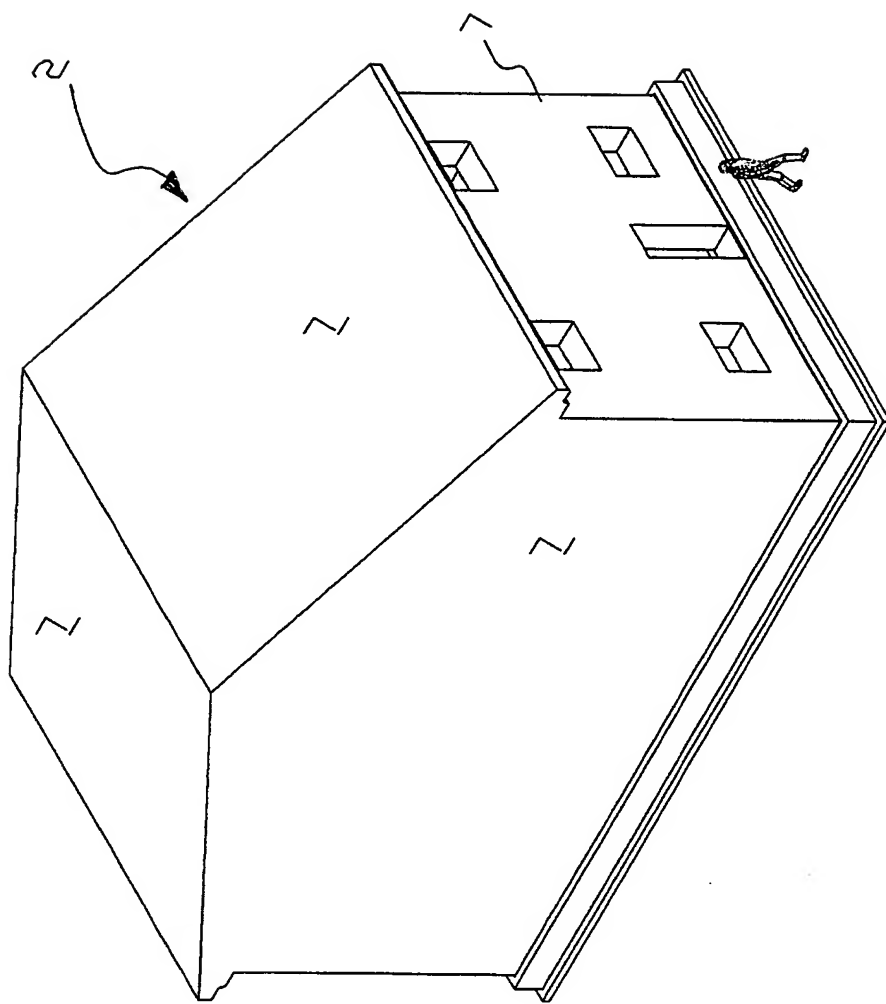


Fig. 41

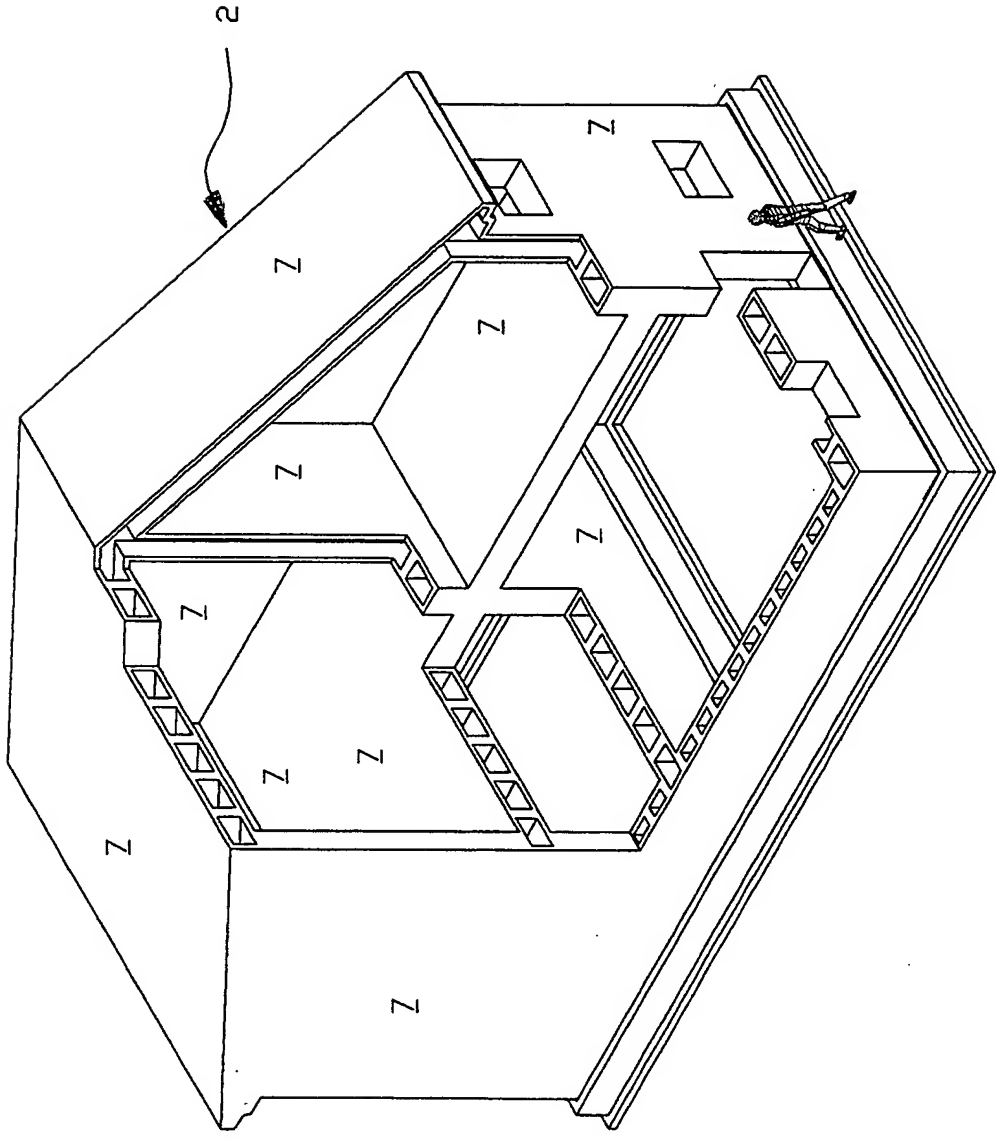


Fig. 42

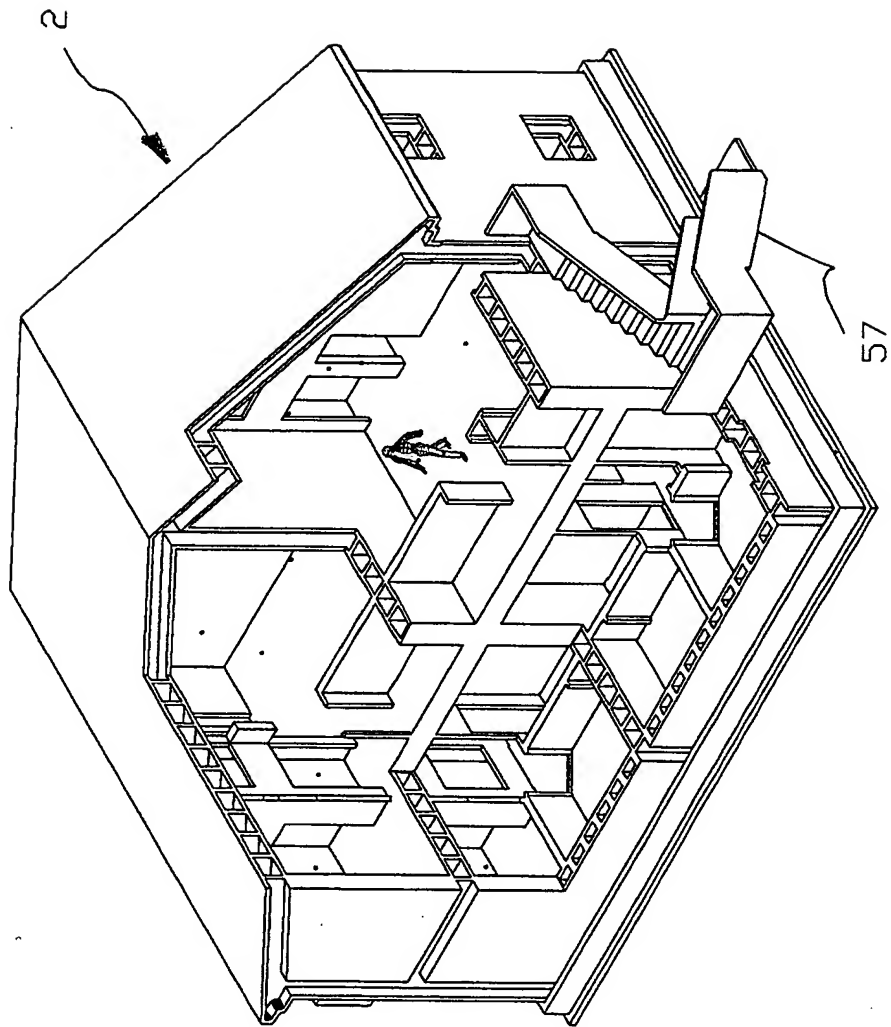


Fig. 43

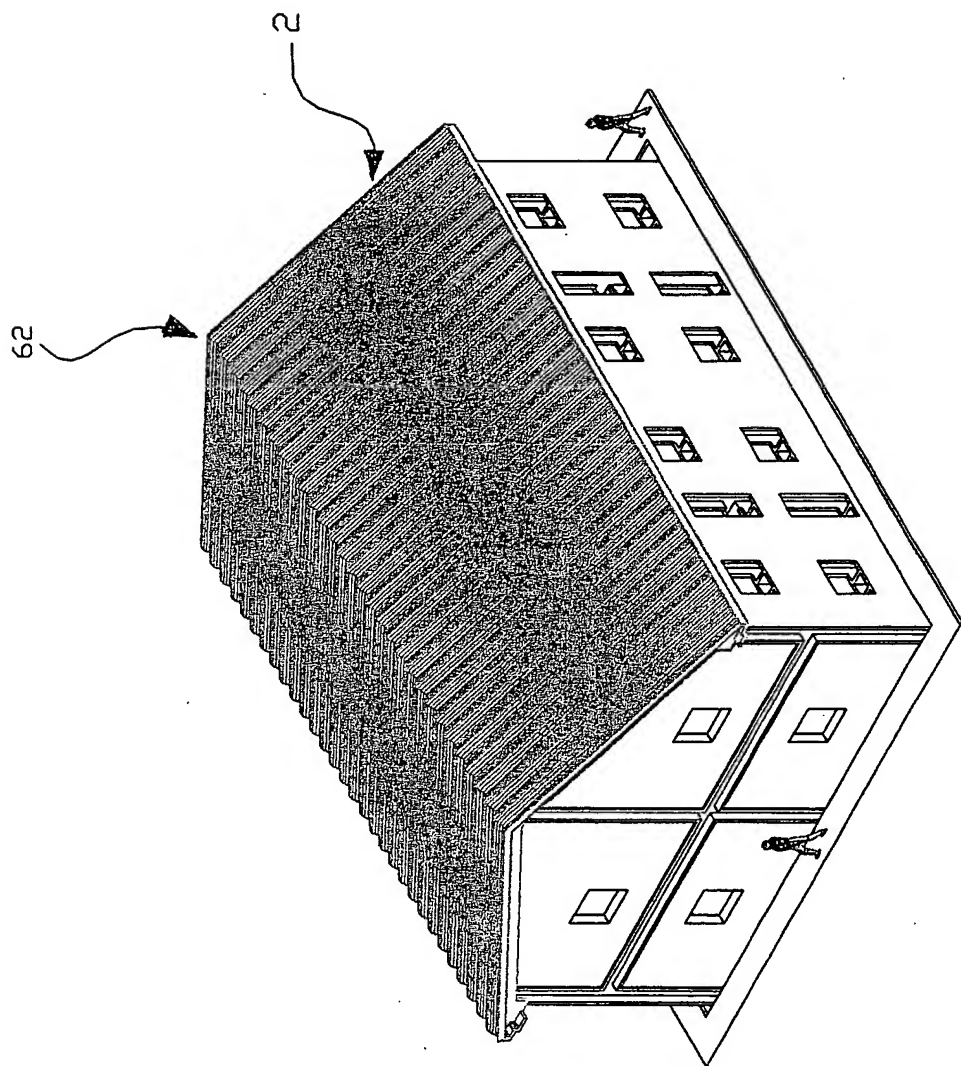


Fig. 44

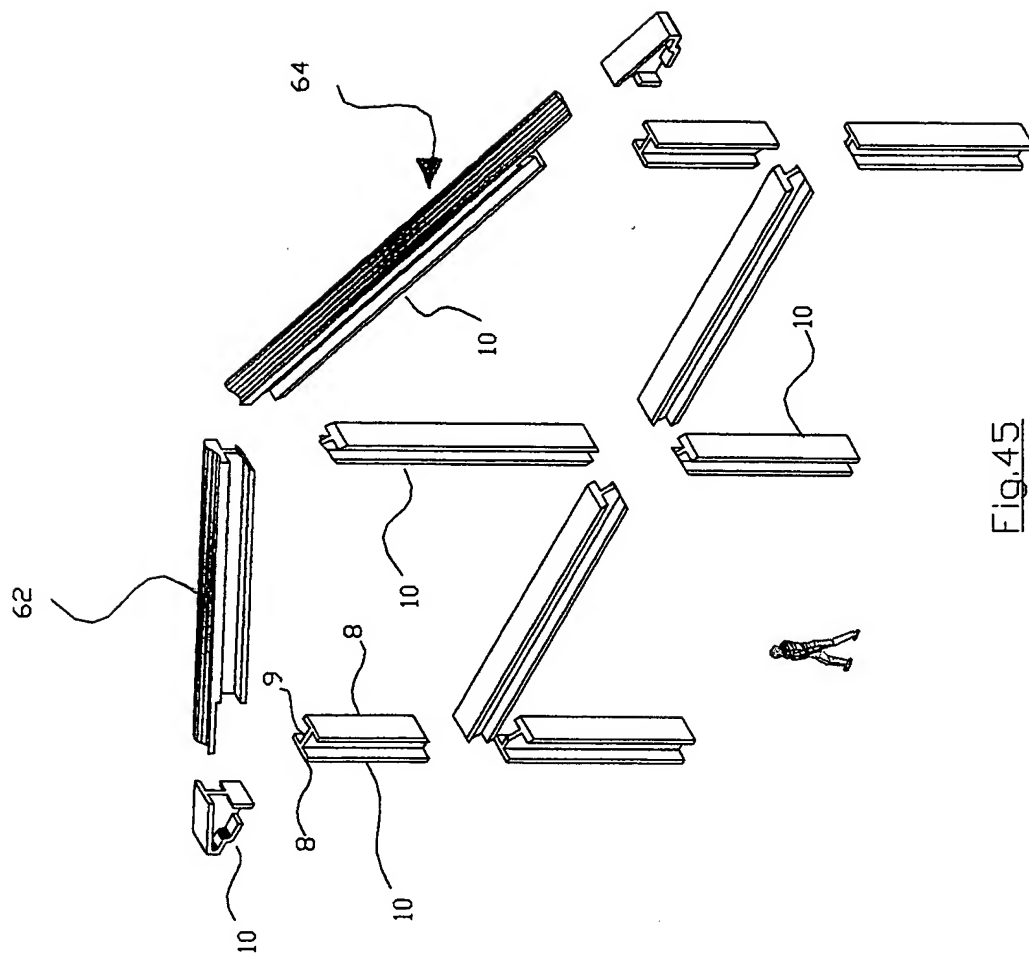


Fig. 45

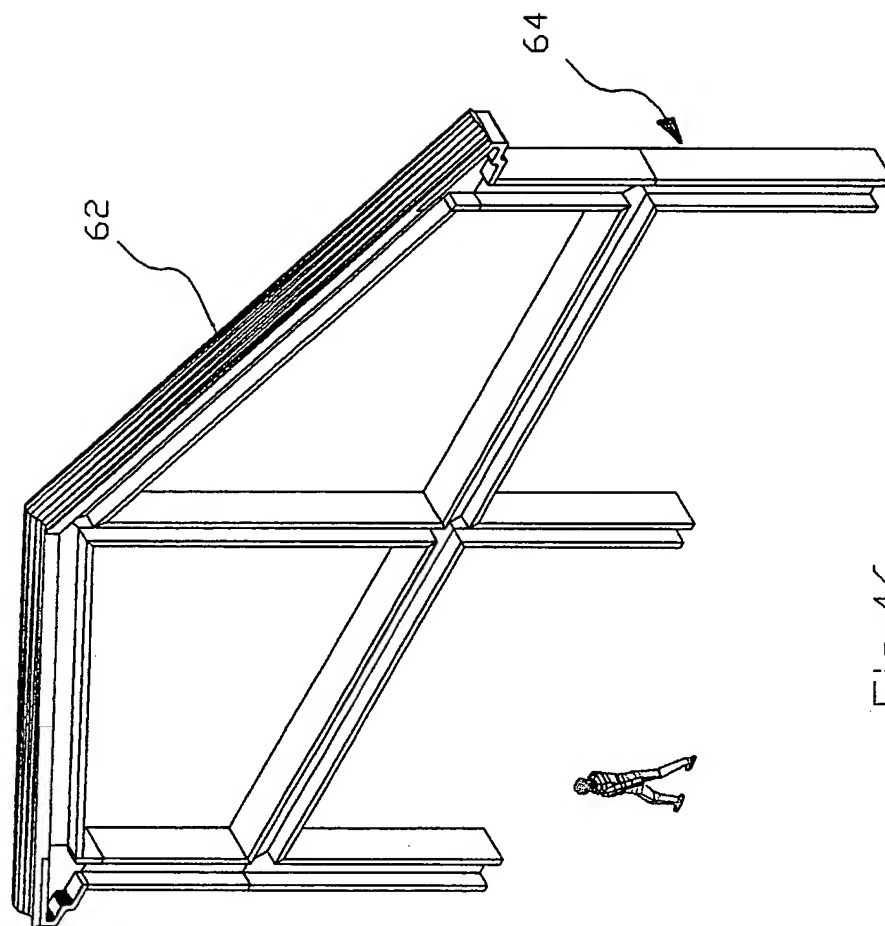


Fig. 46



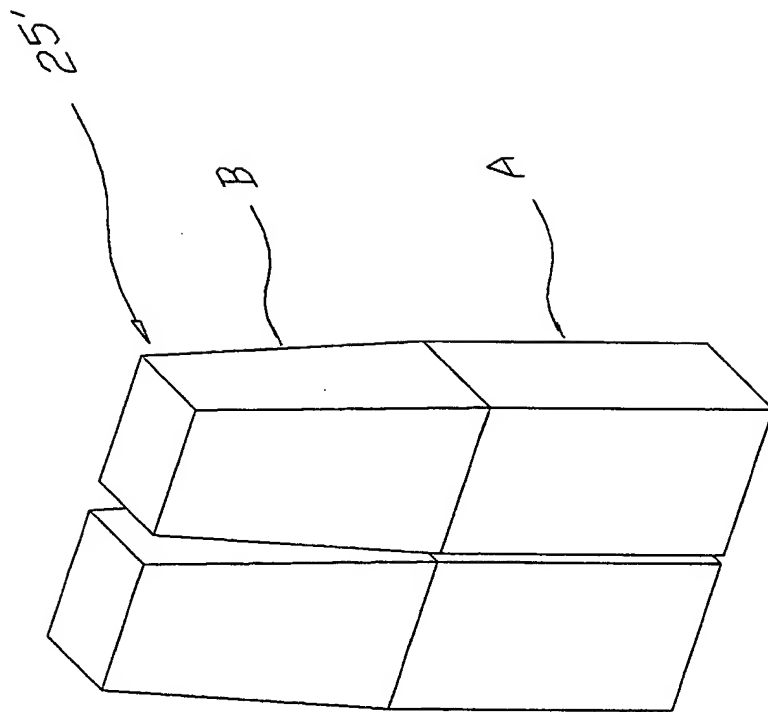


Fig.47

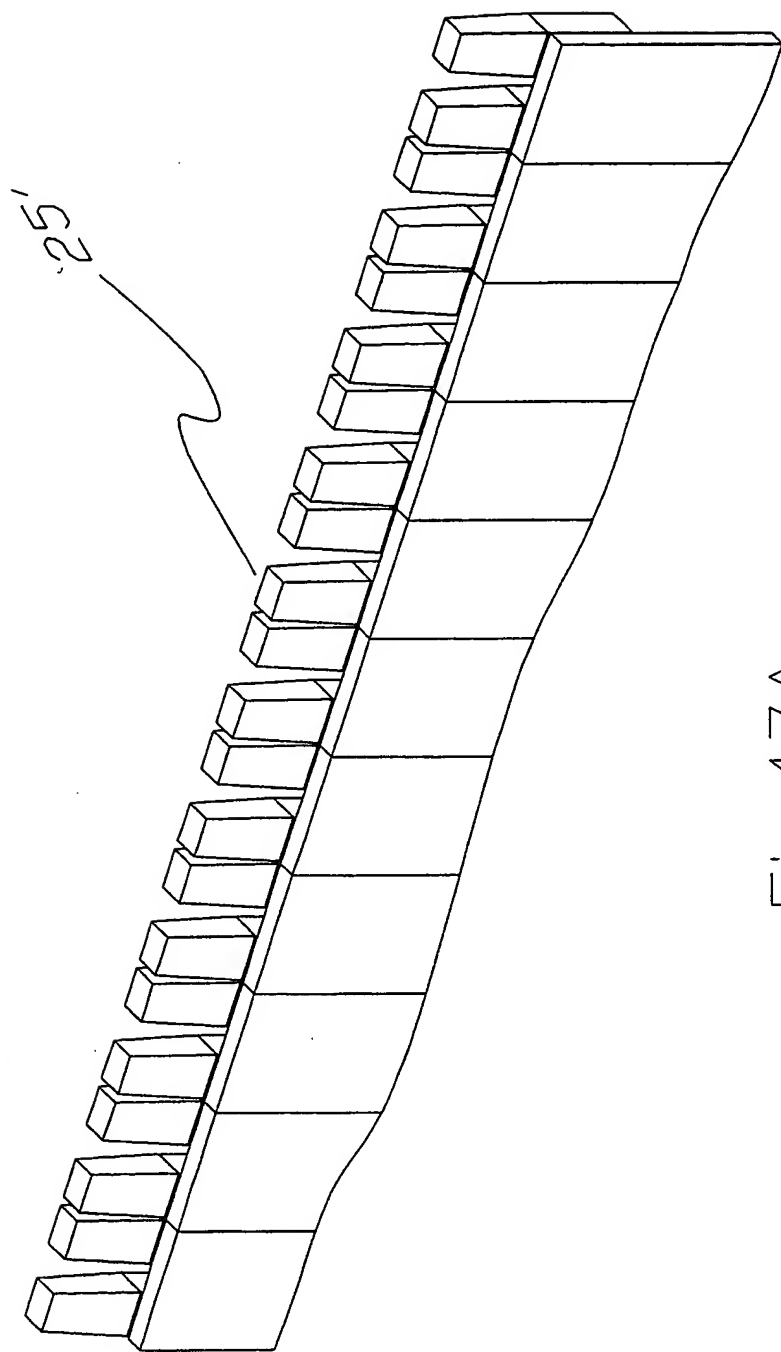
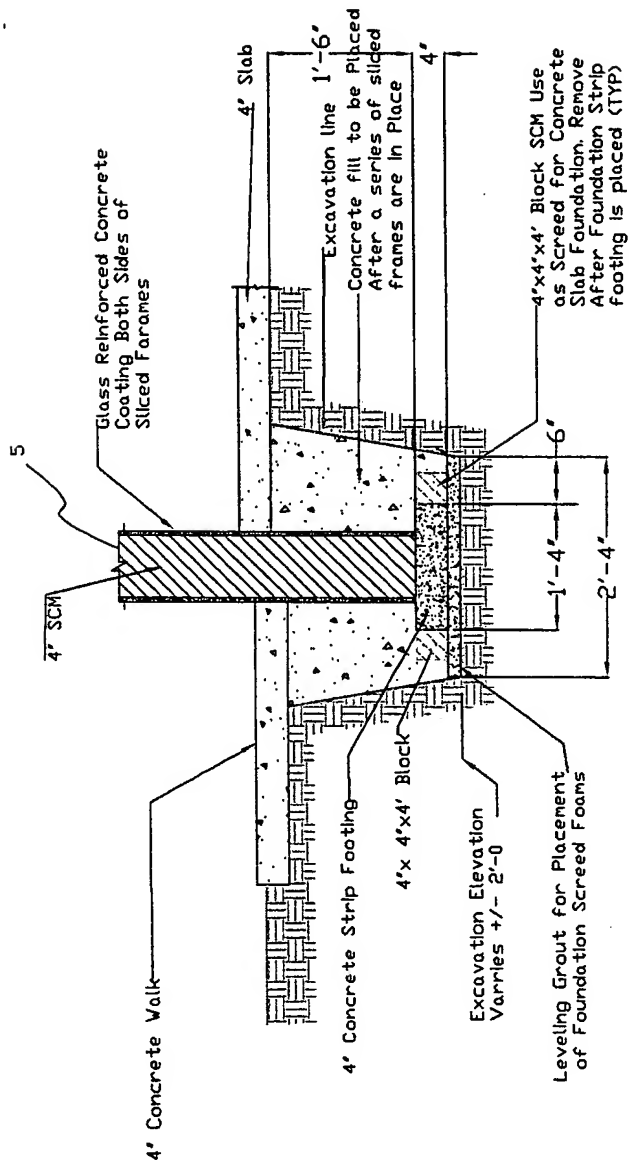


Fig. 47A



SLICED FRAMES GROUND  
CONNECTION DETAIL

SCALE: NONE

Fig. 48

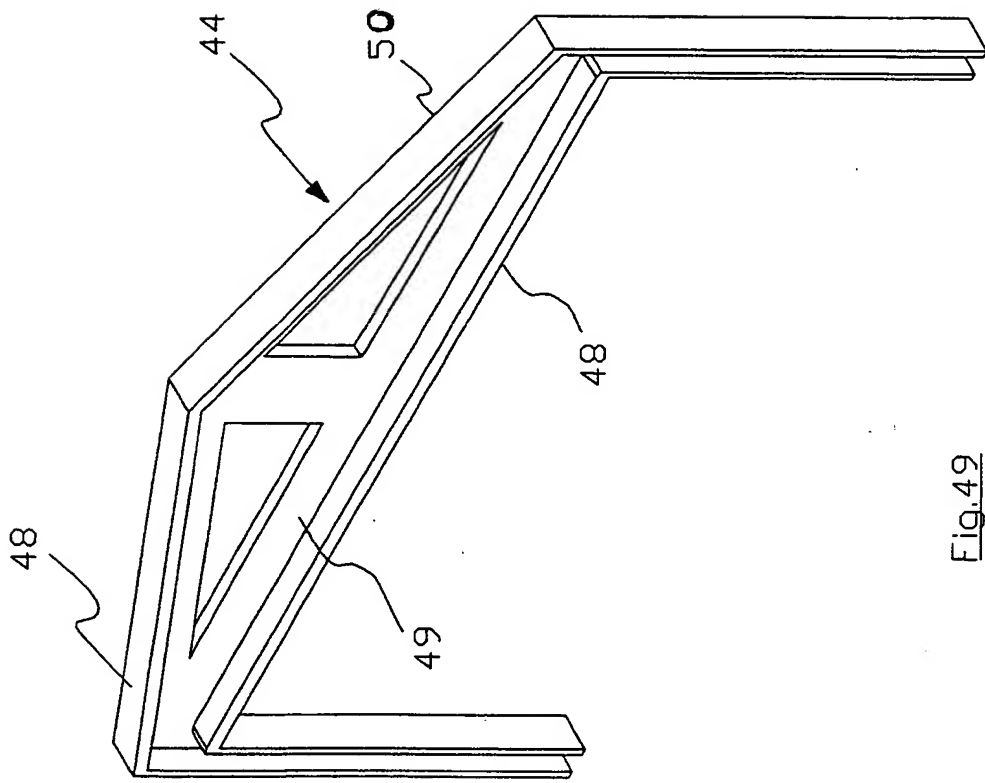


Fig. 49

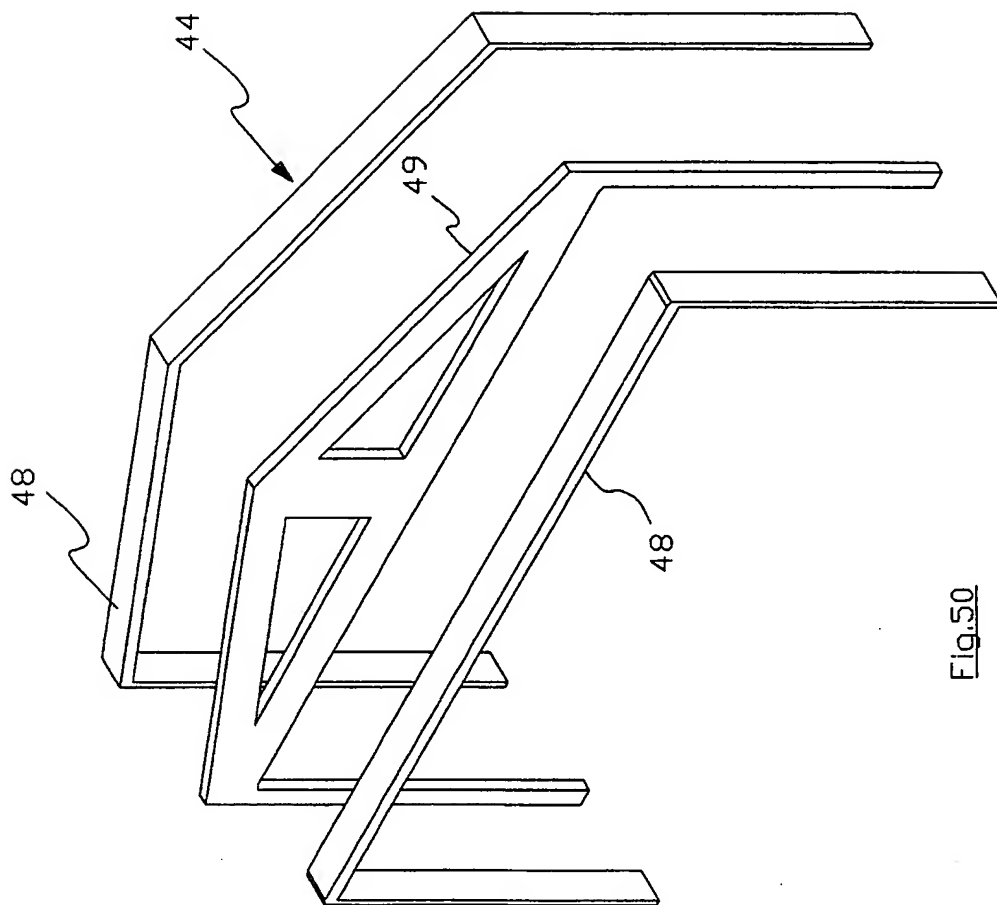


Fig. 50

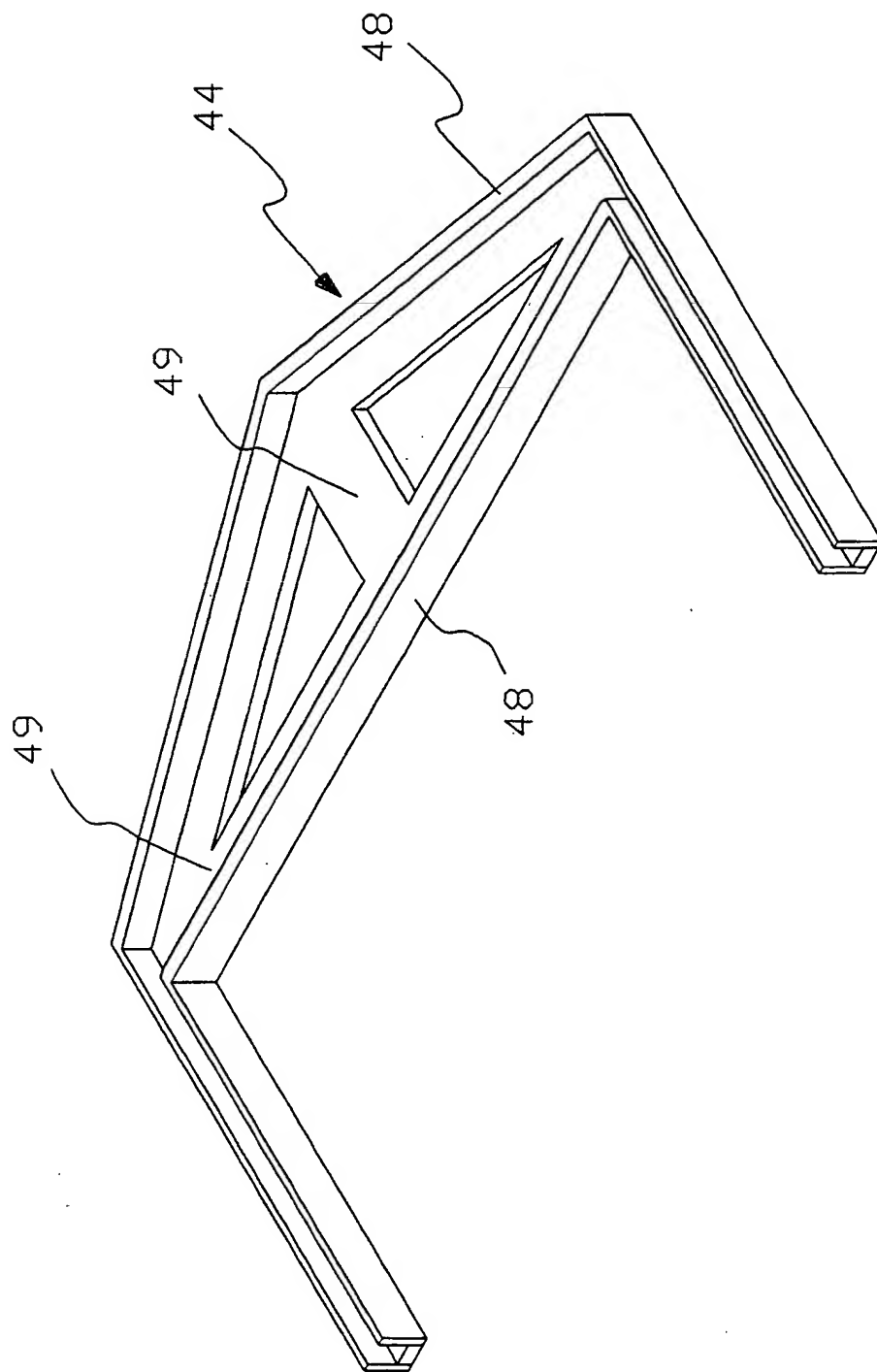


Fig. 51

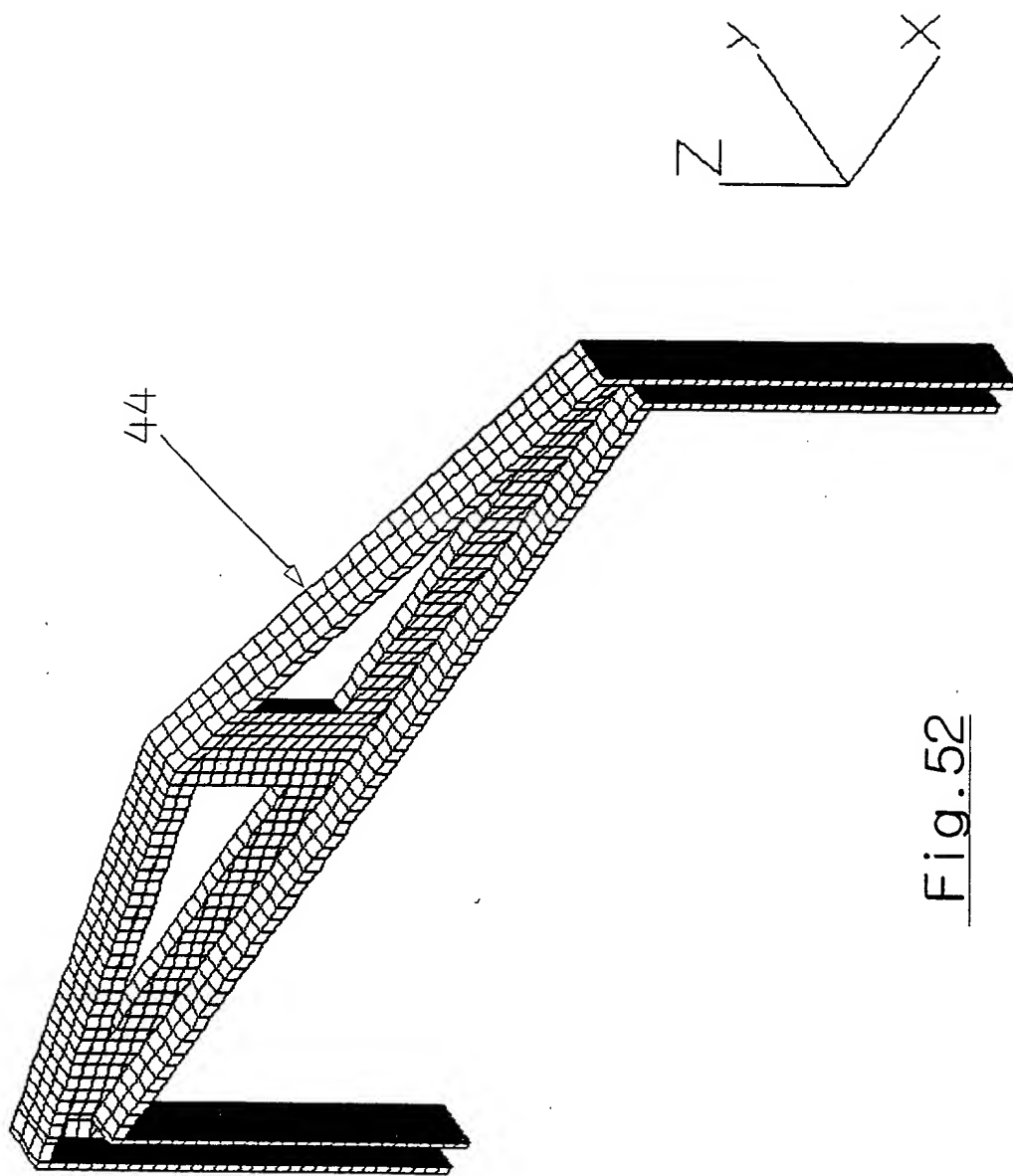


Fig. 52

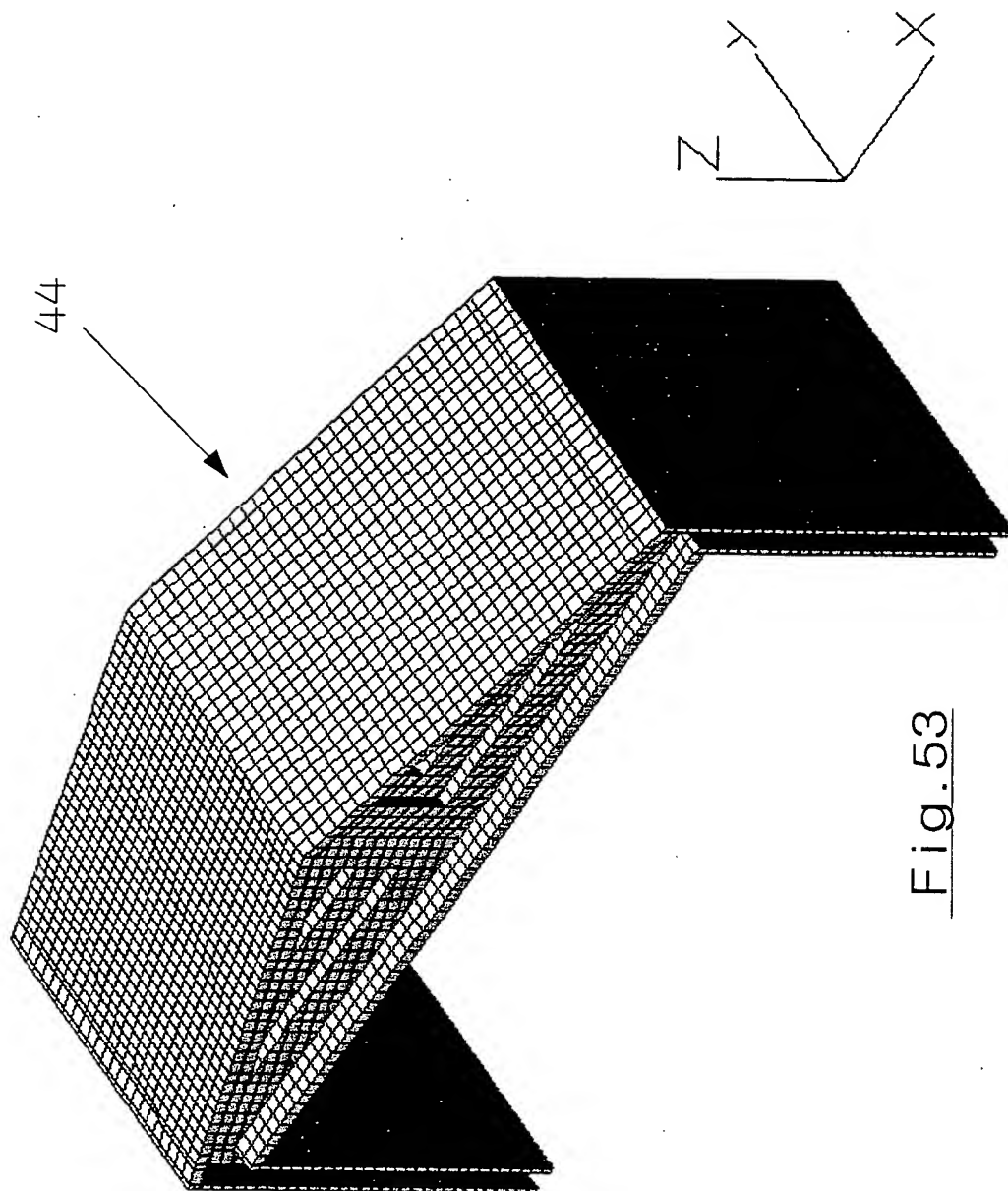


Fig. 53



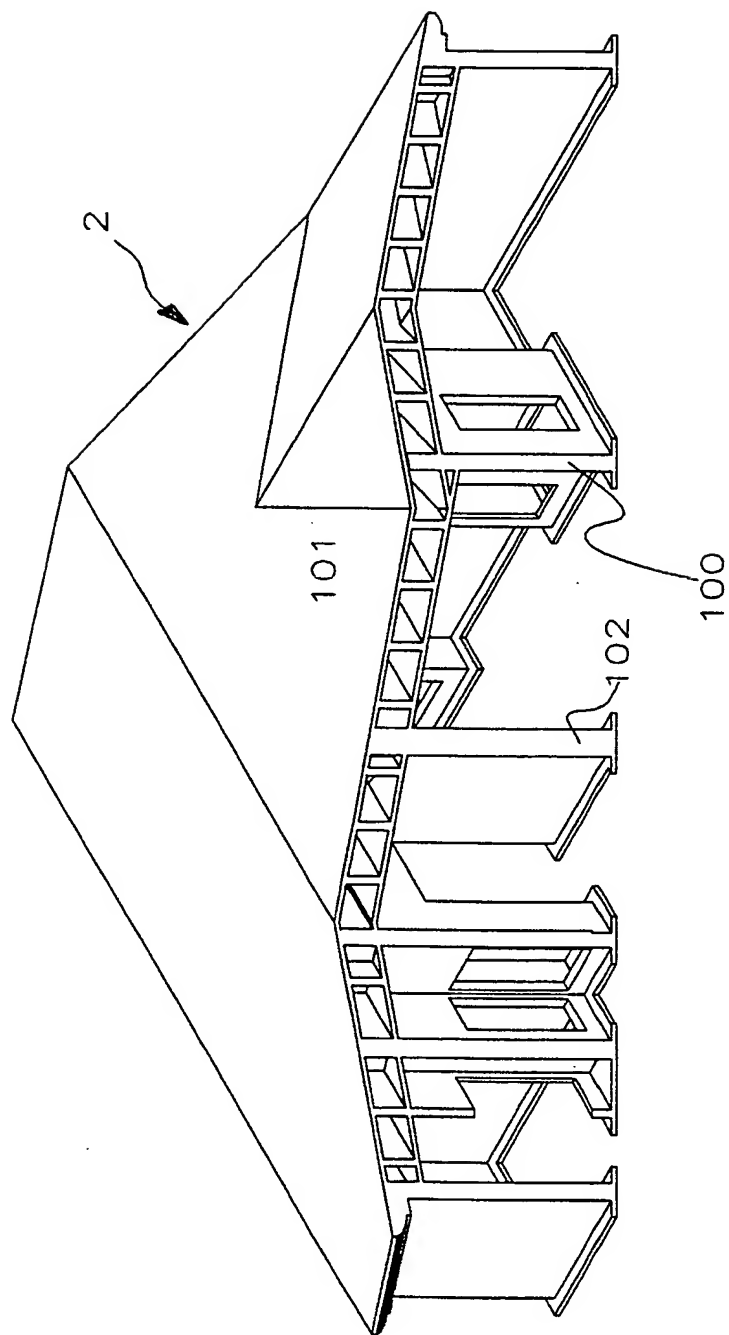


Fig. 54

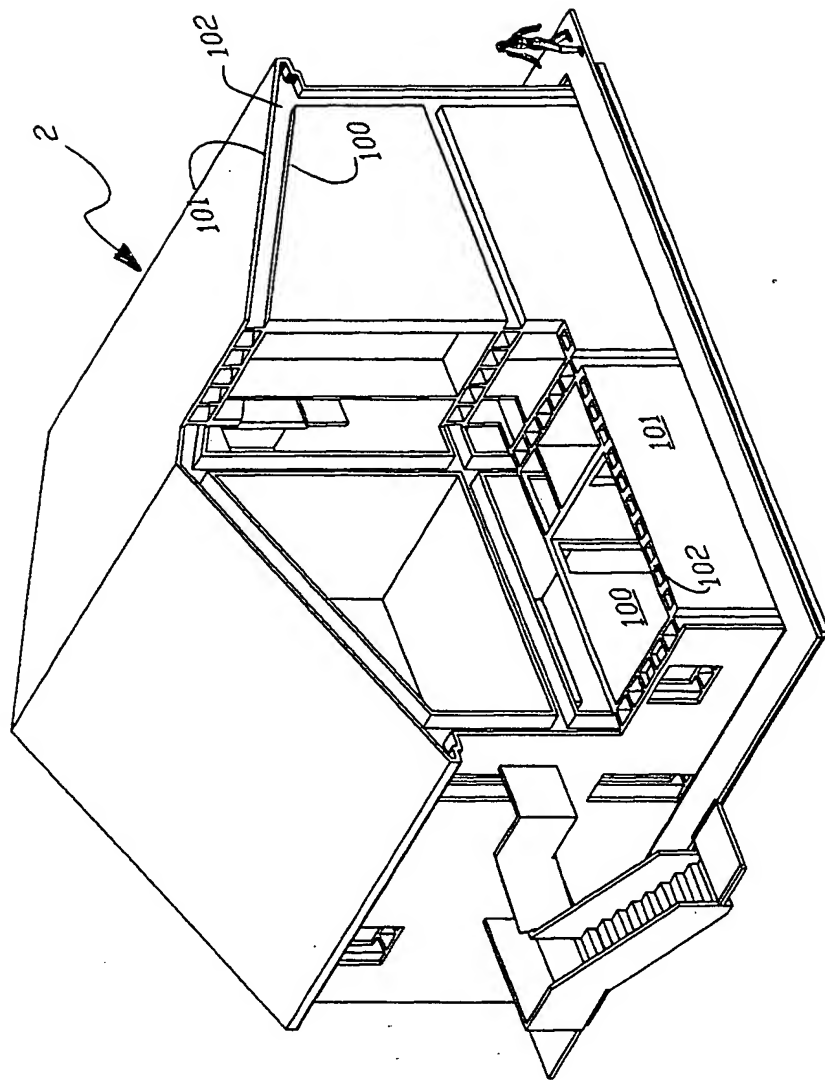


Fig. 55

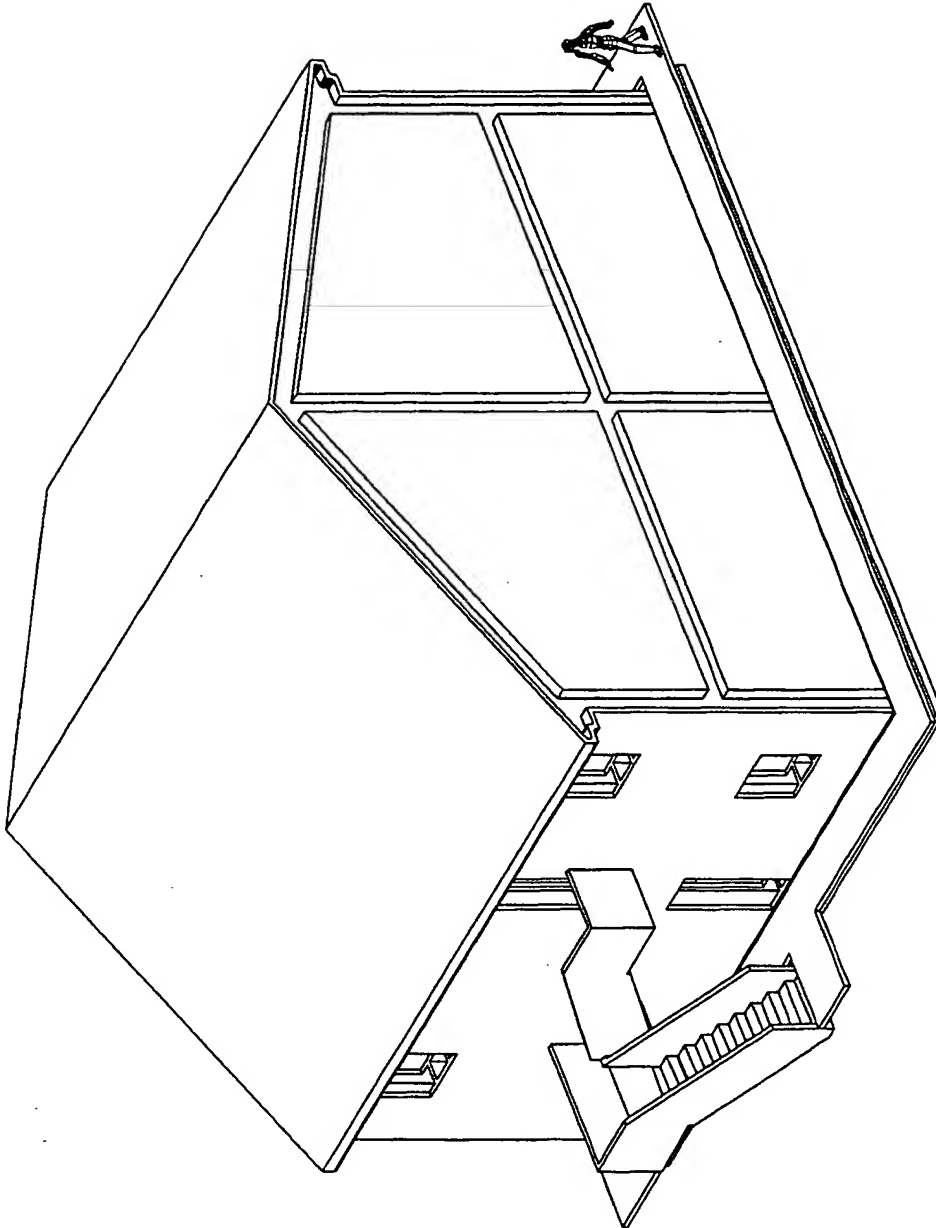


Fig. 56

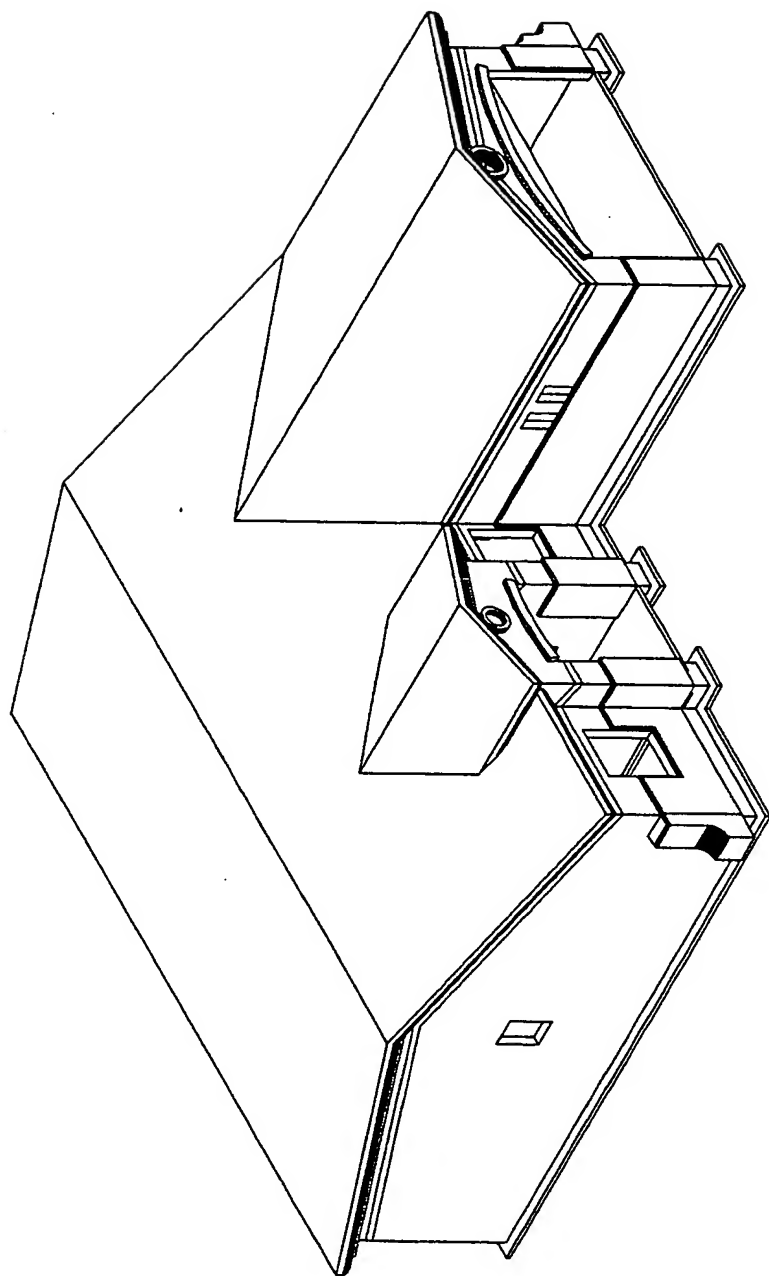


Fig. 57

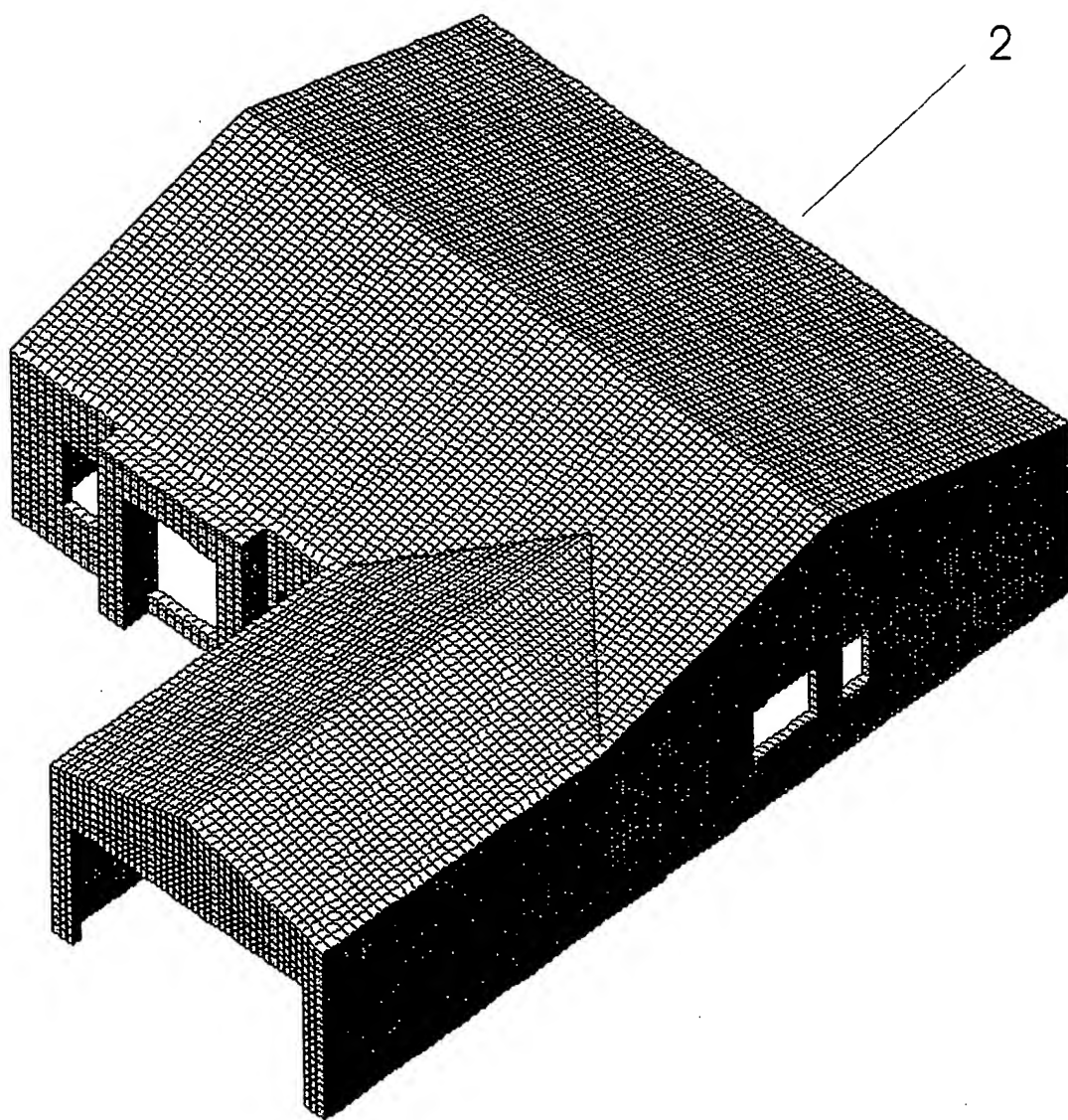


Fig. 58

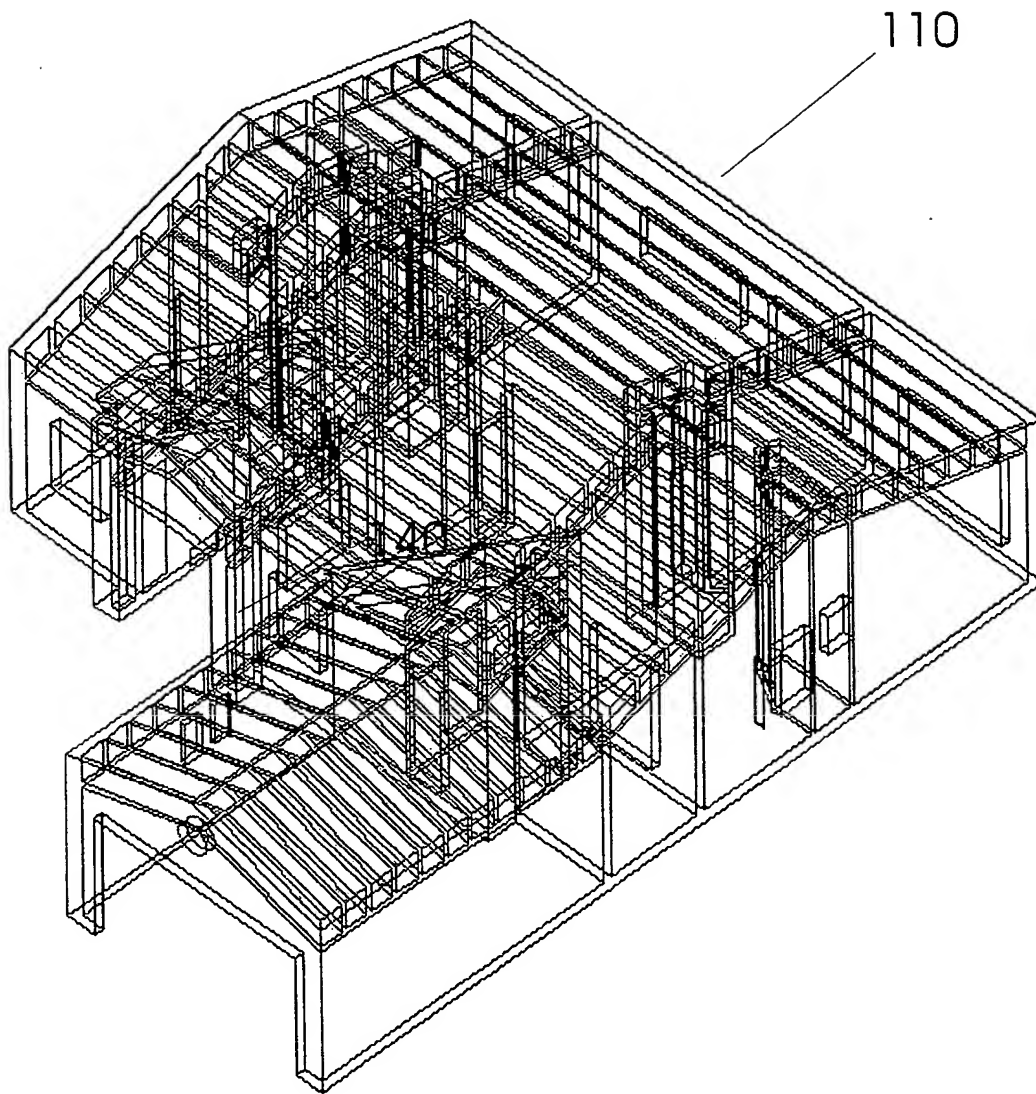


Fig.59

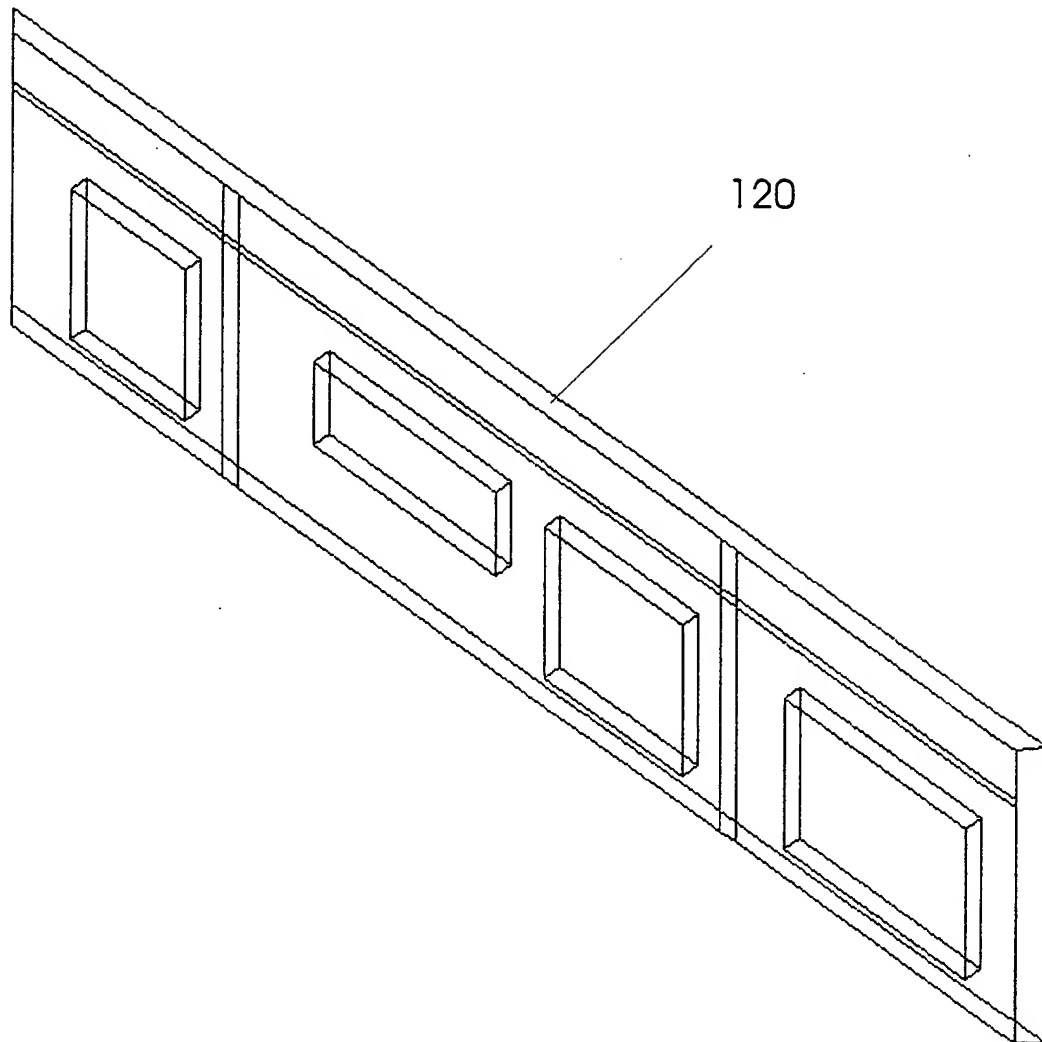


Fig.60

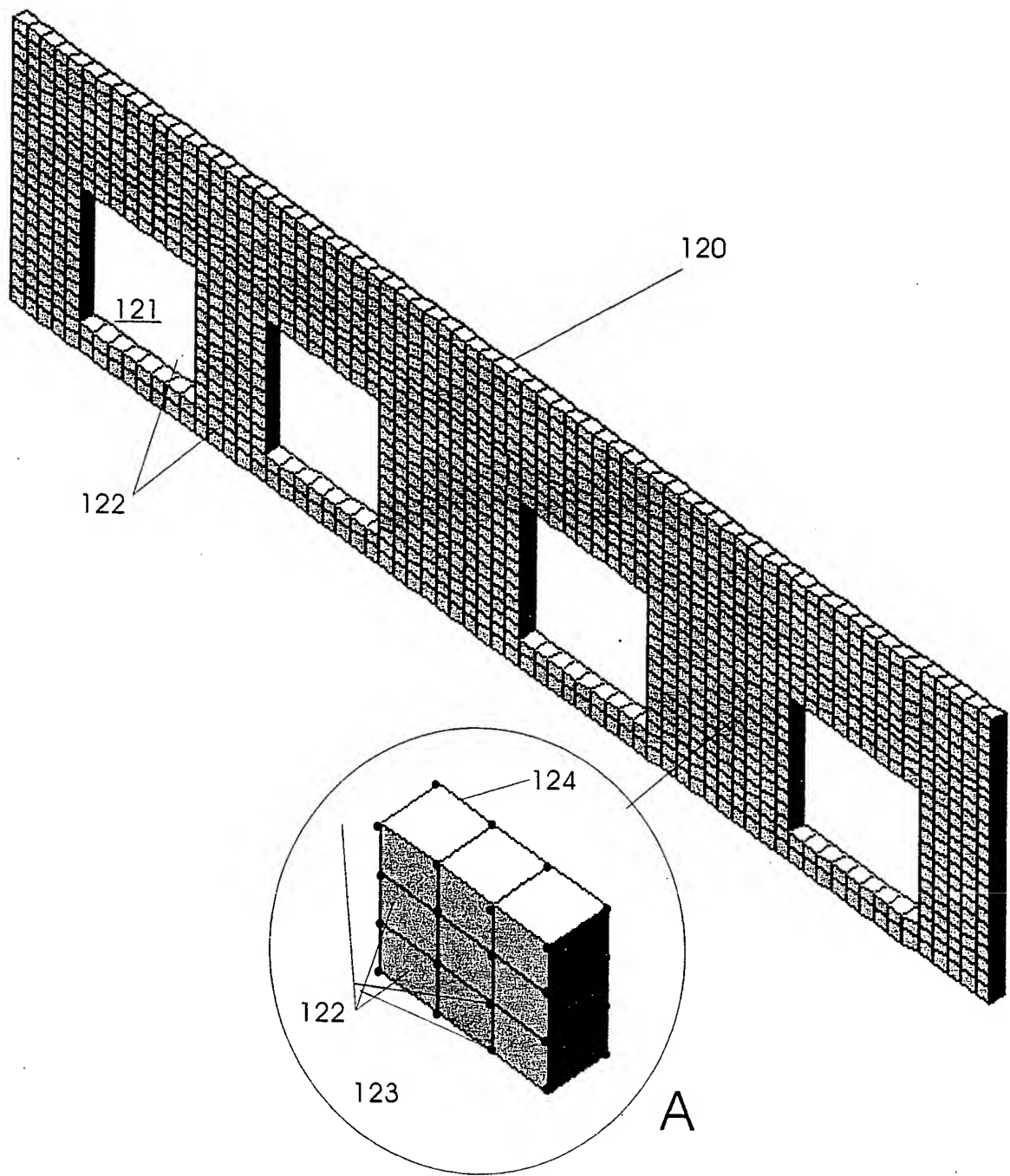


Fig.61



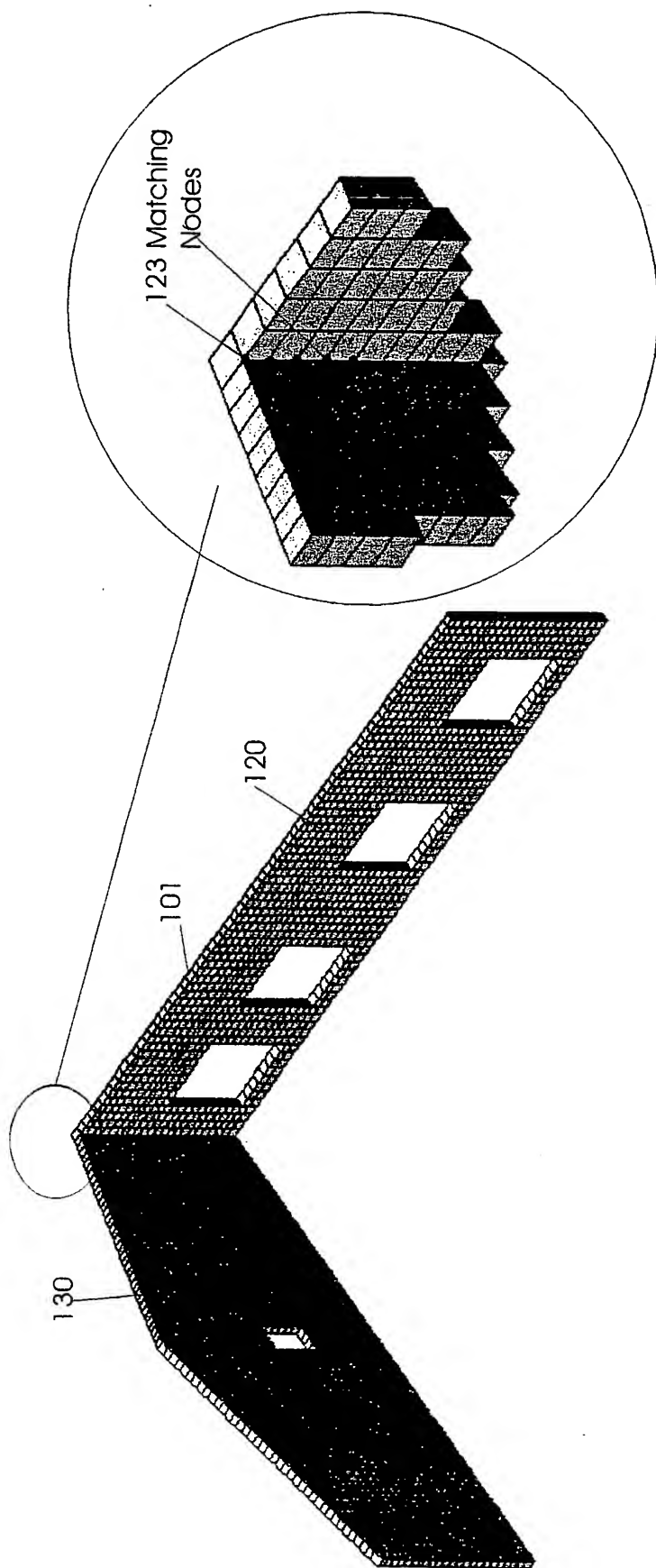


Fig. 62

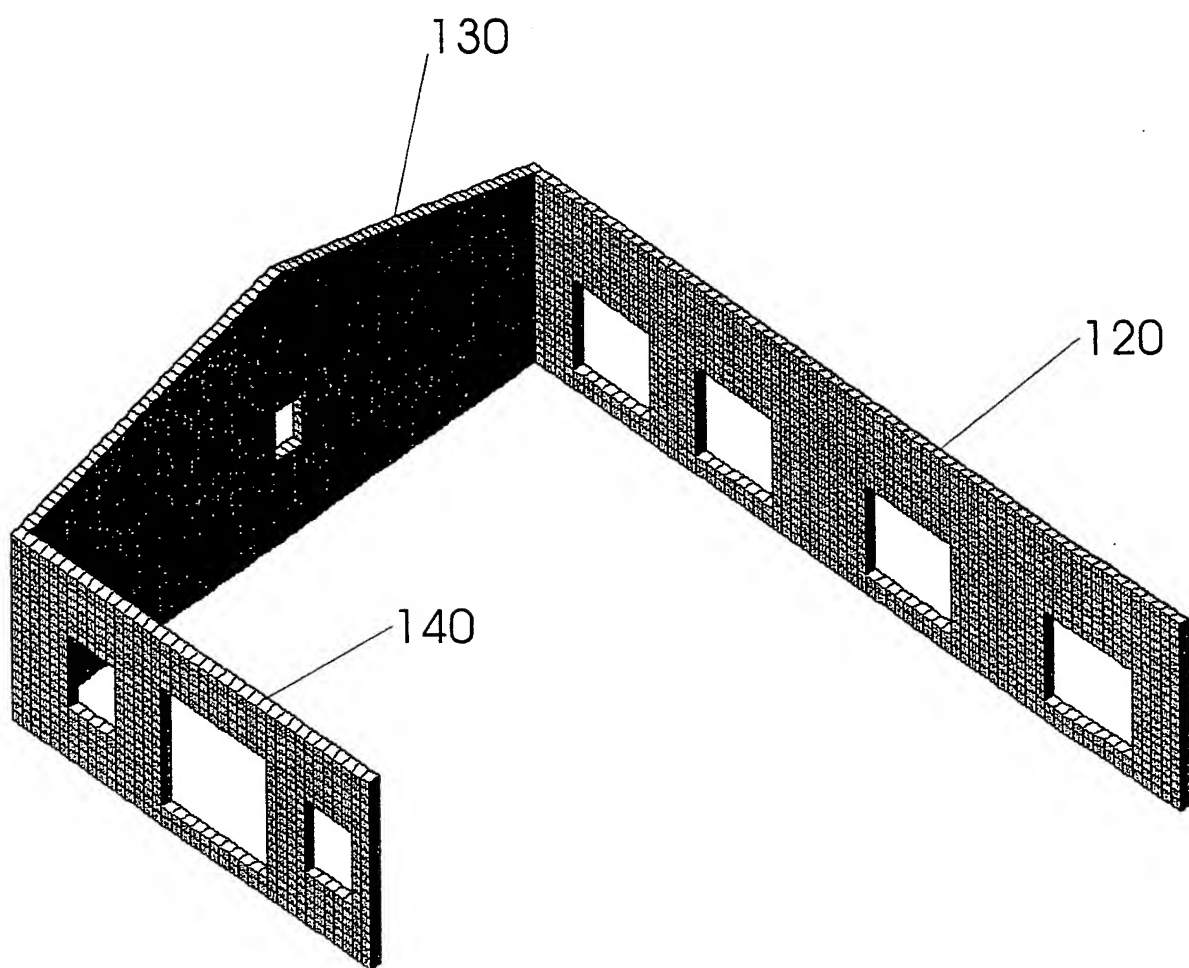


Fig.63

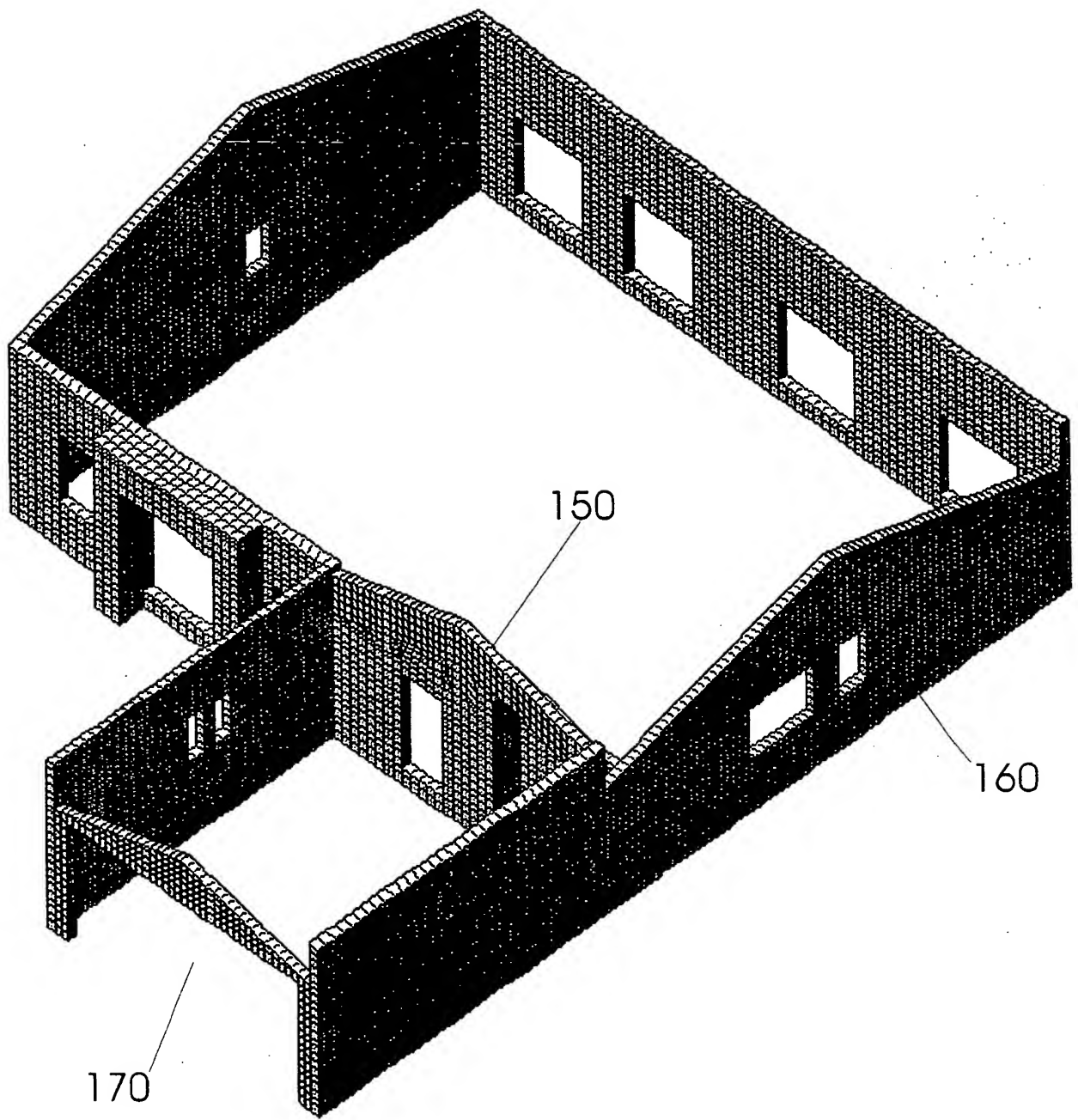


Fig.64

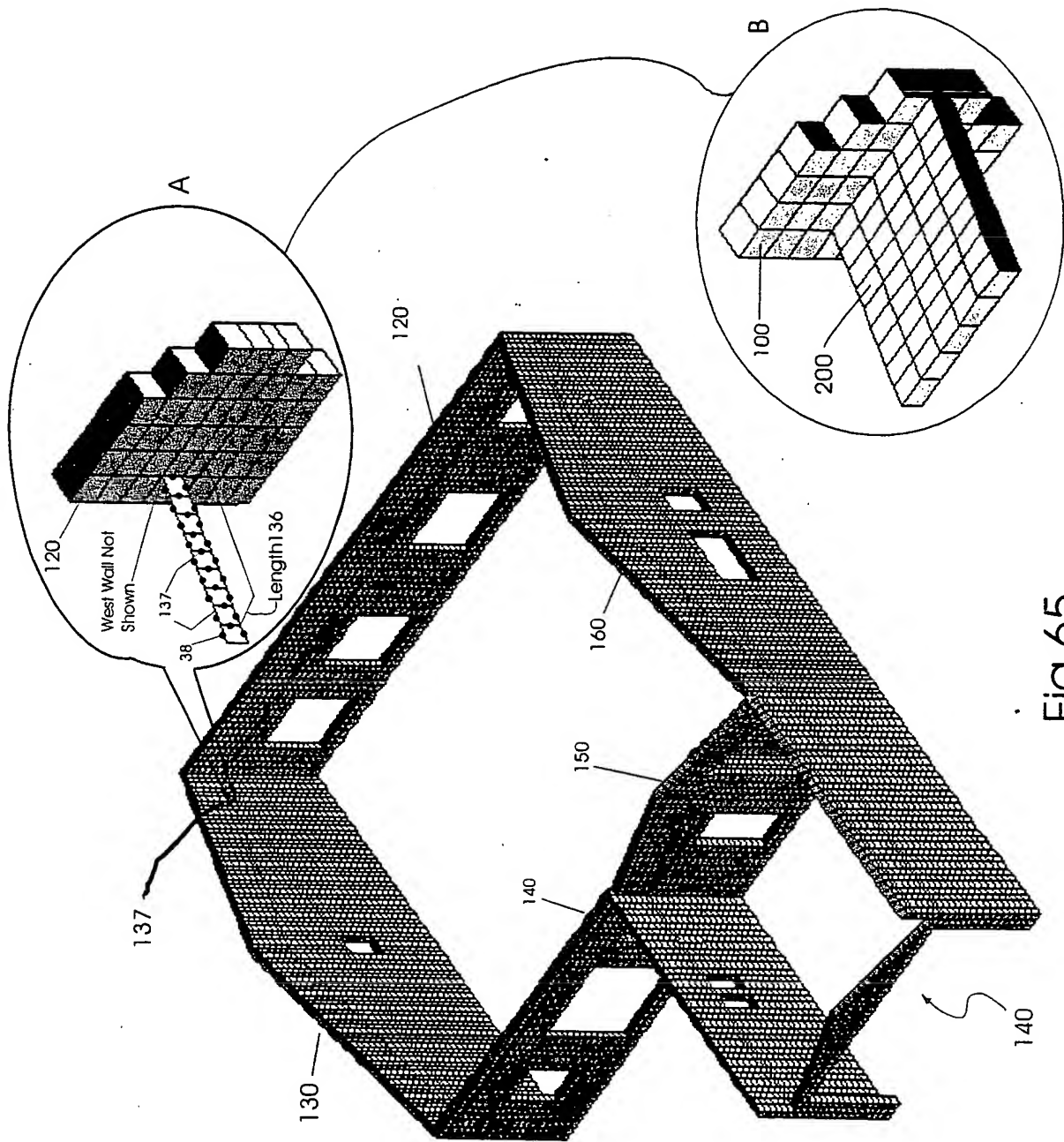


Fig. 65

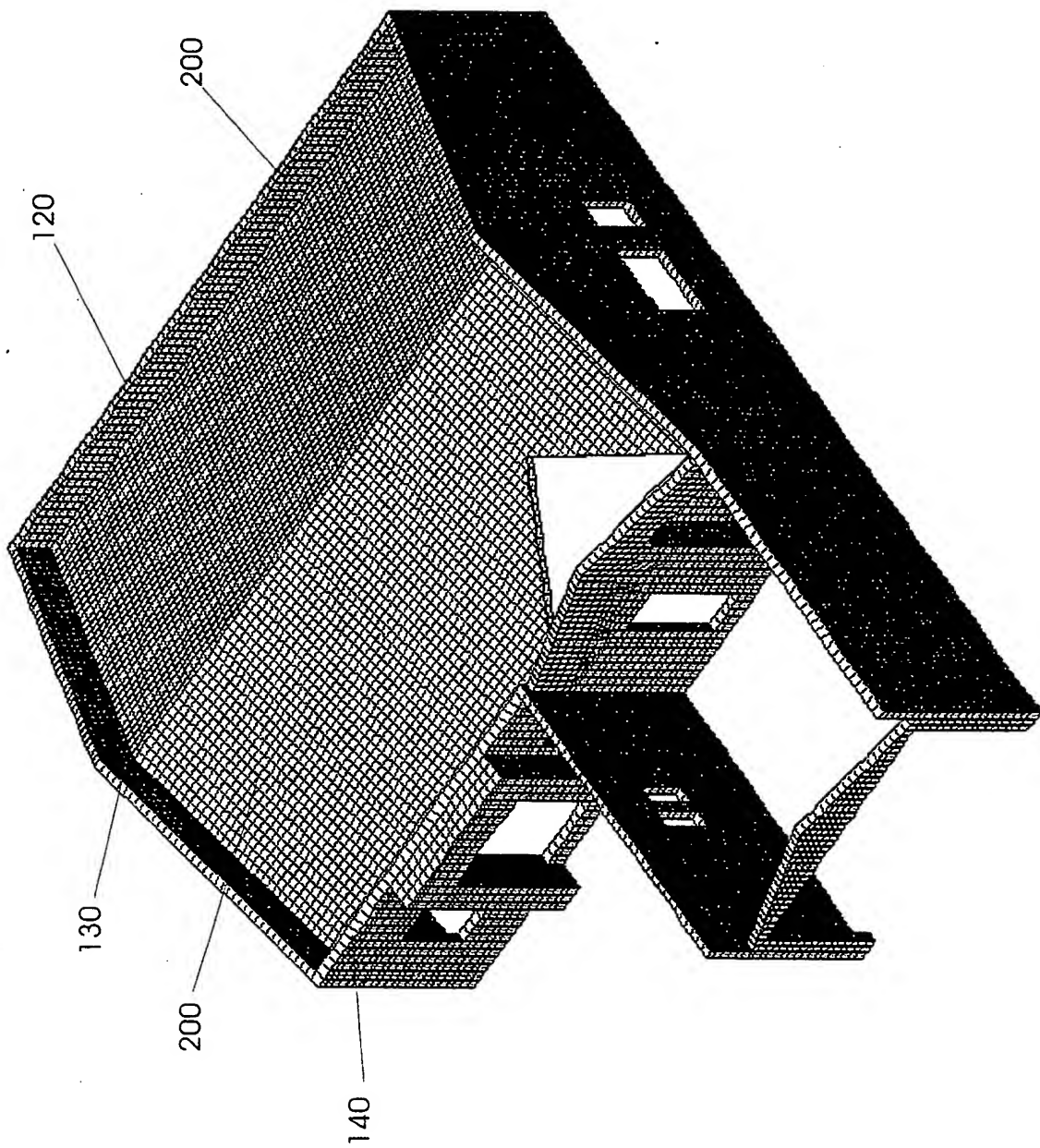


Fig. 66

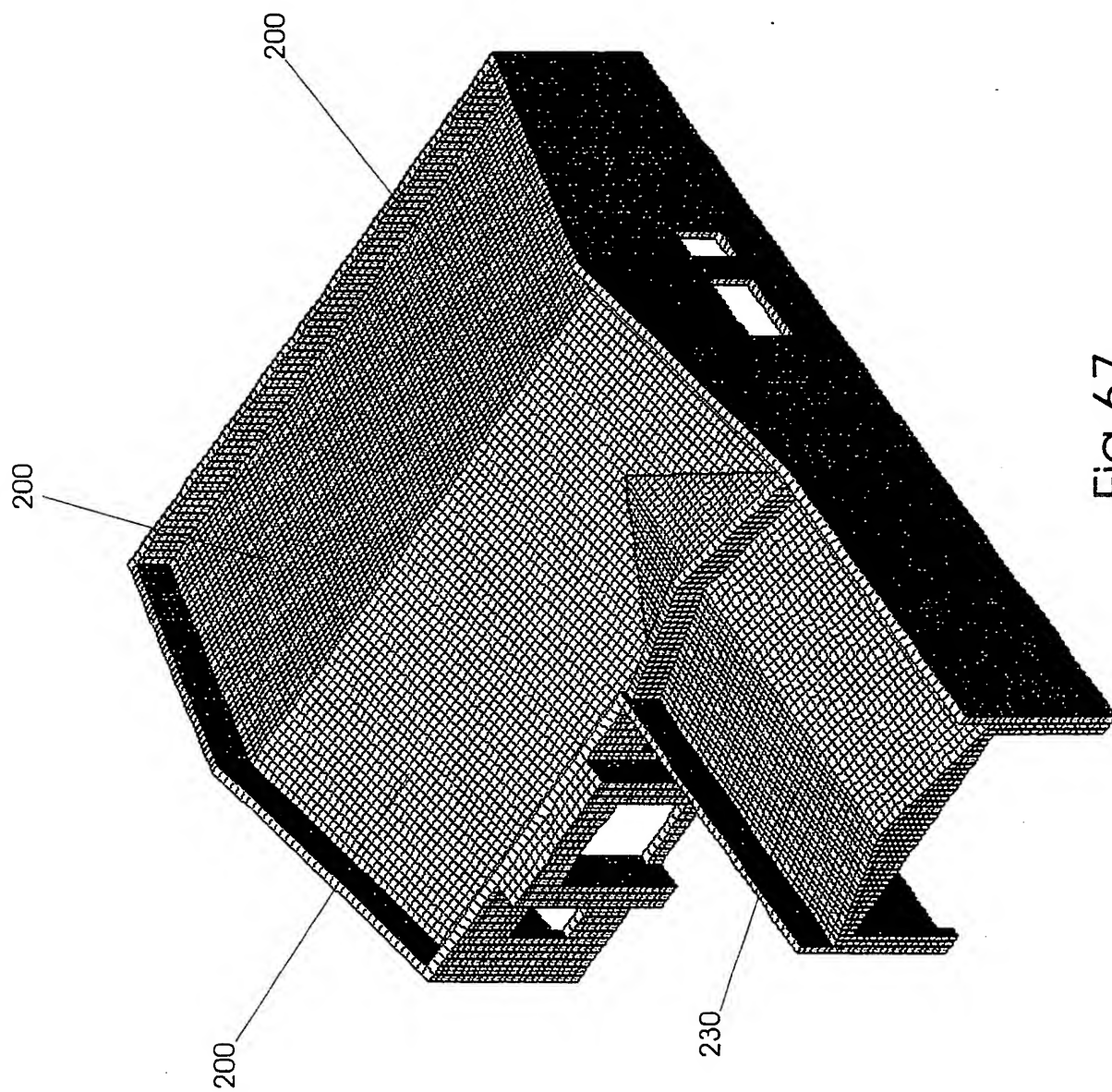


Fig. 67

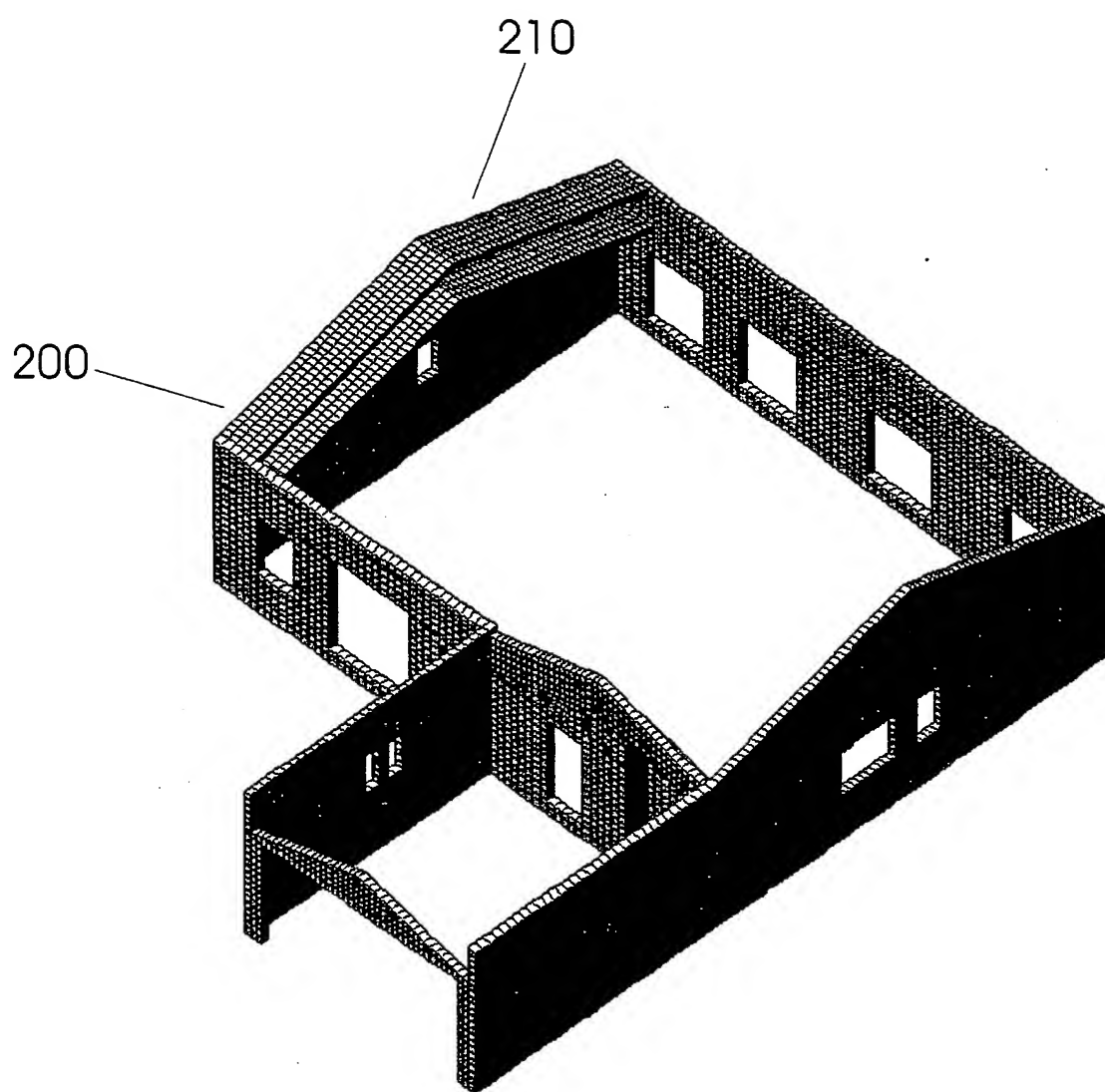


Fig.68

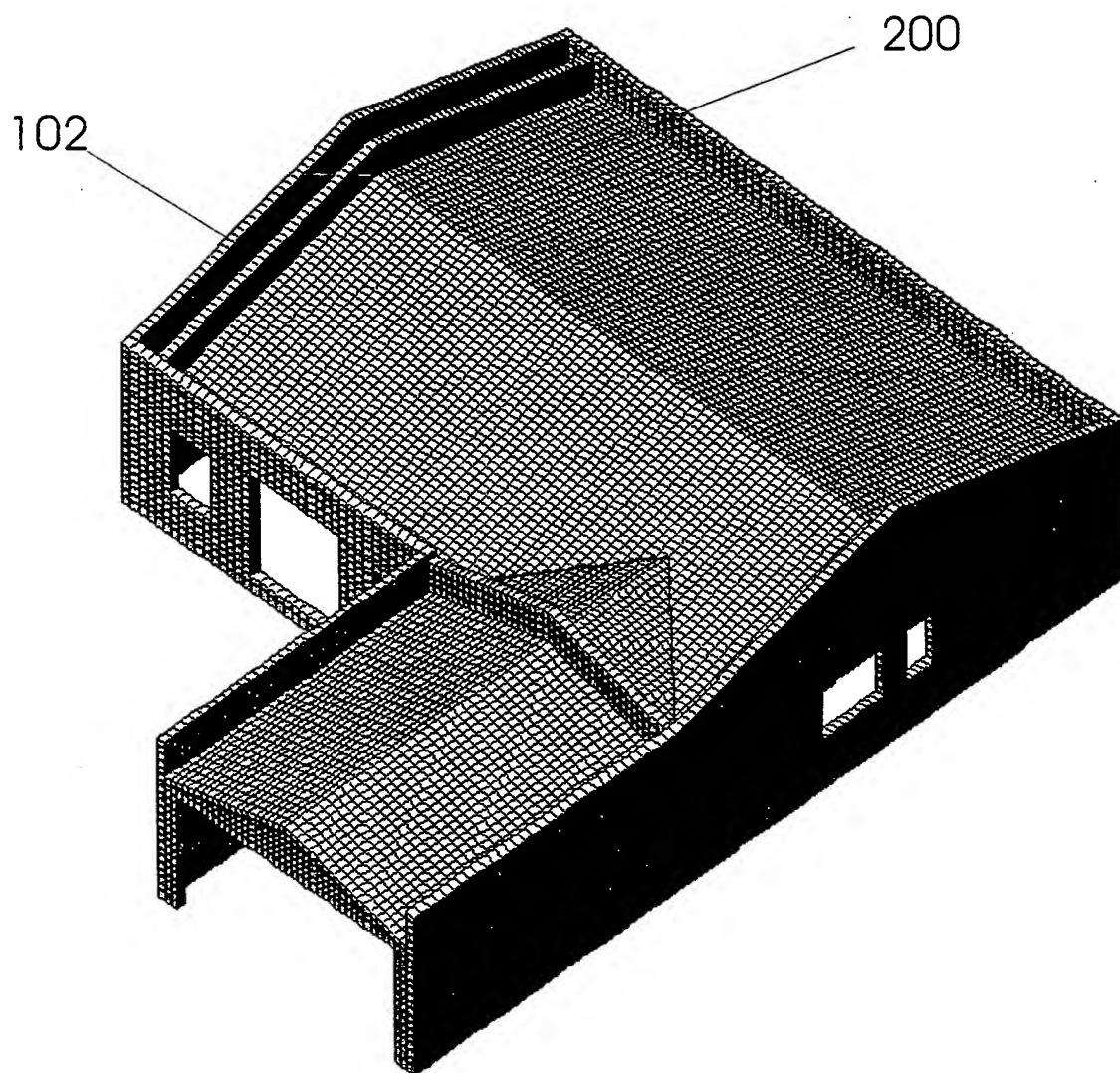


Fig.69



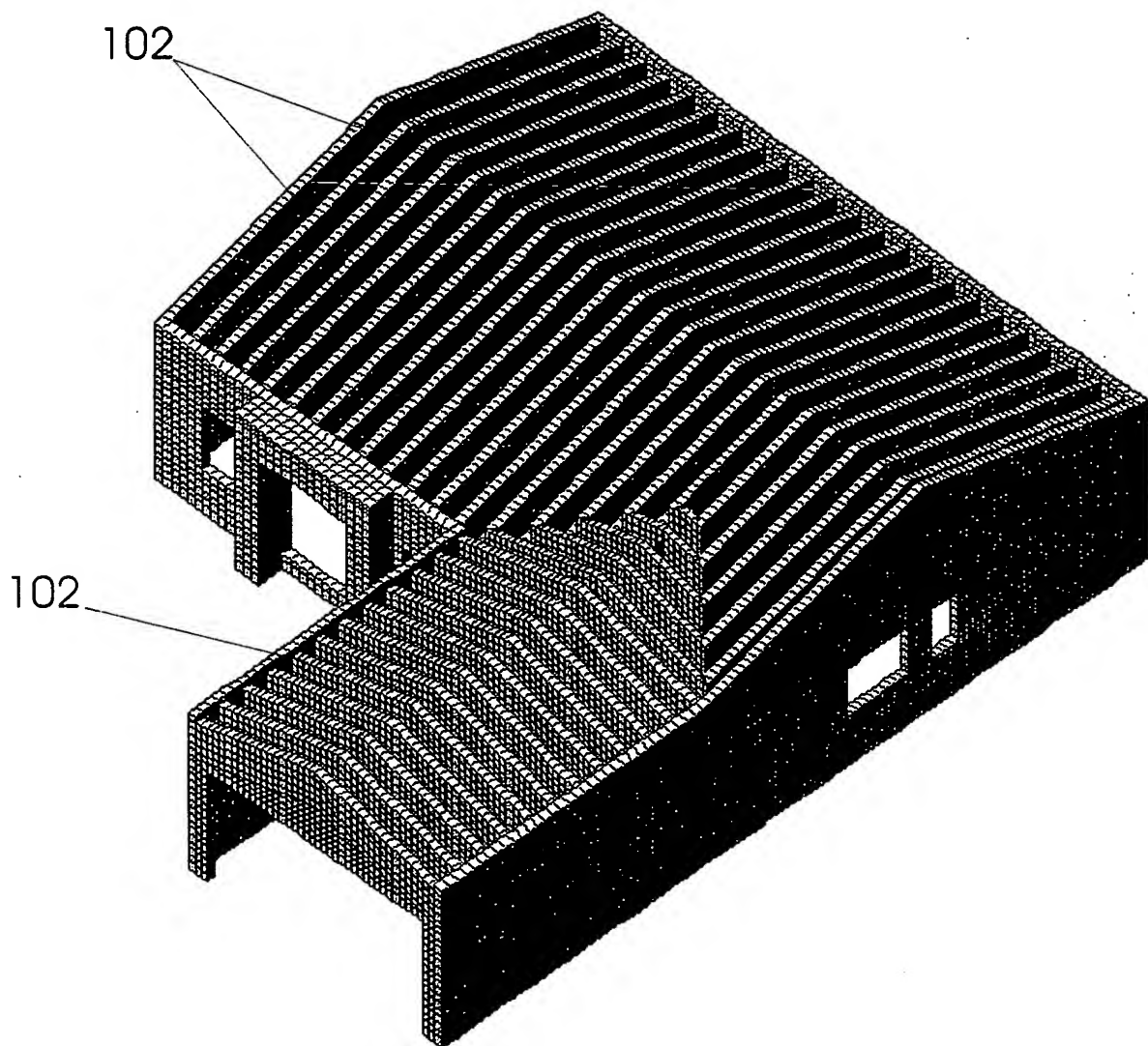


Fig.70

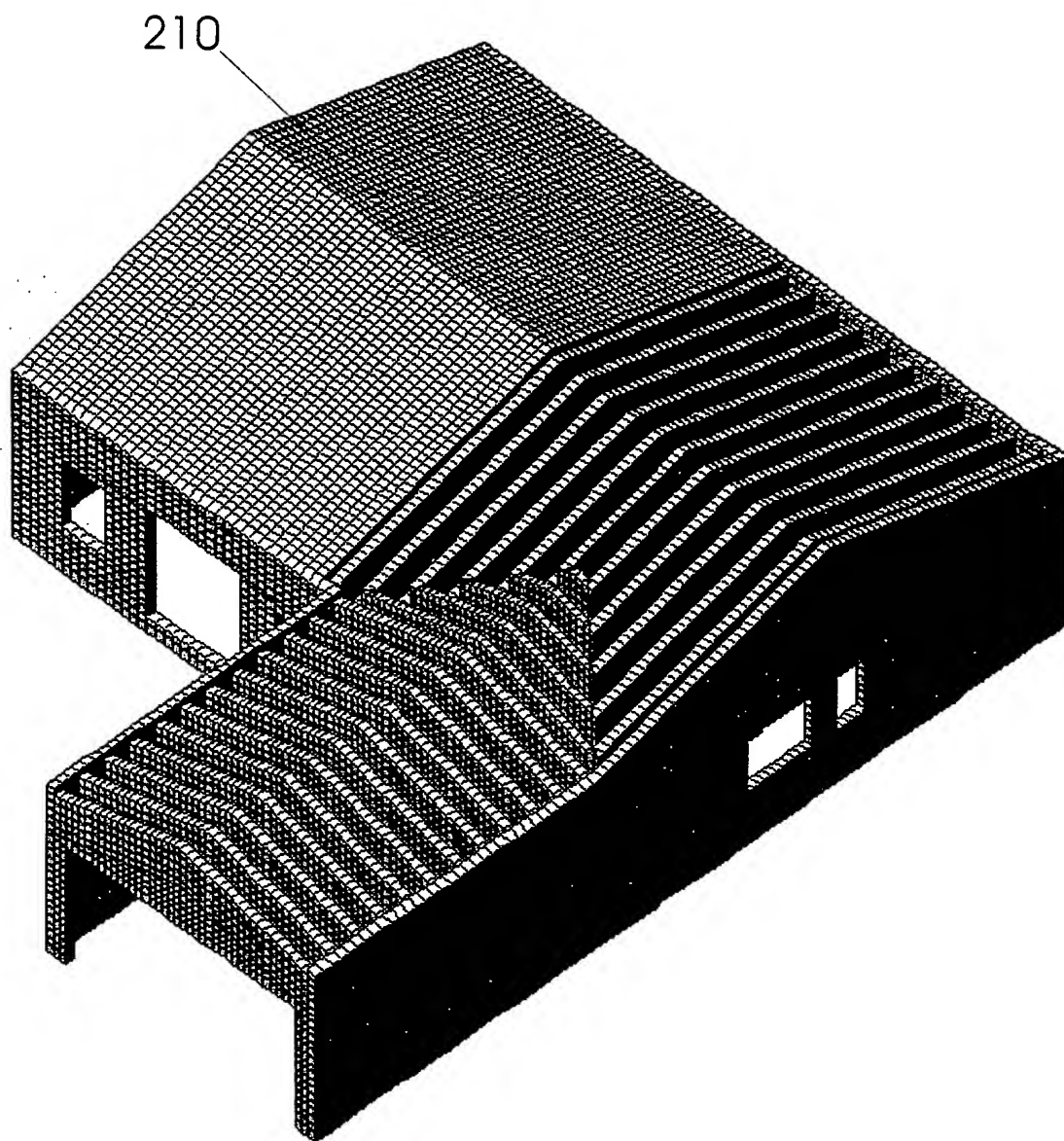


Fig.71

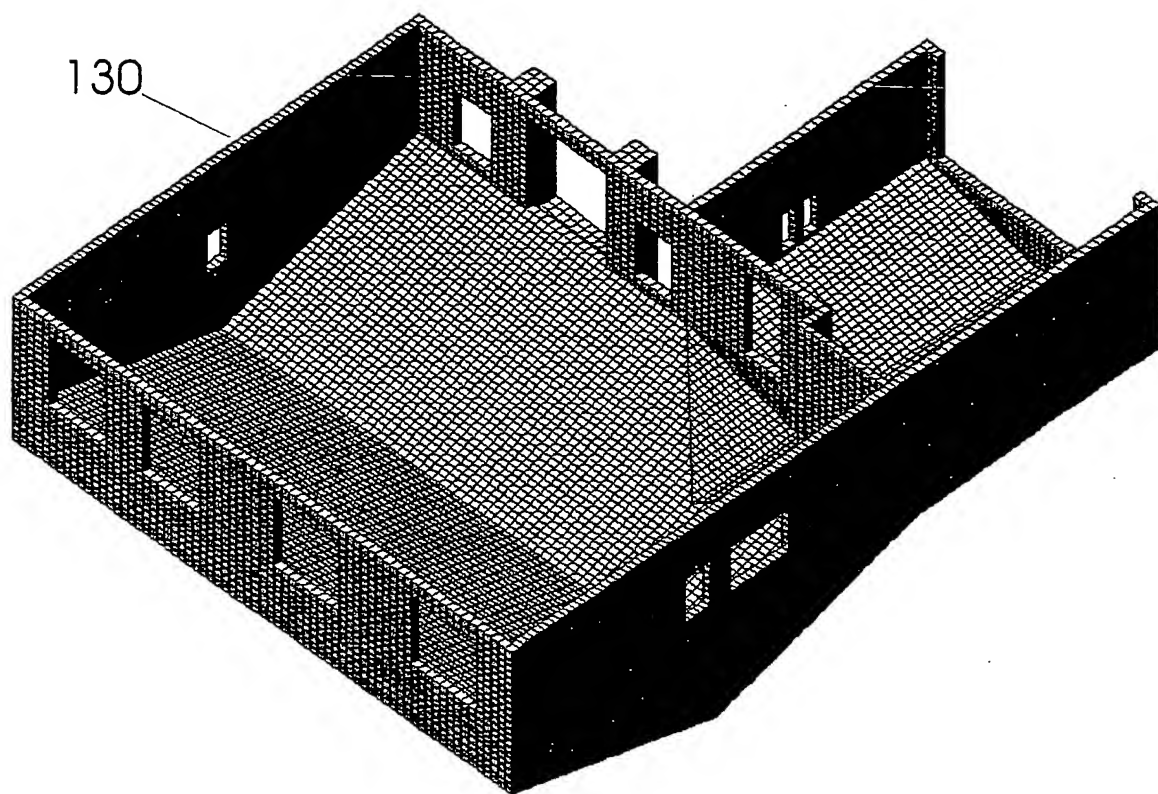


Fig.72

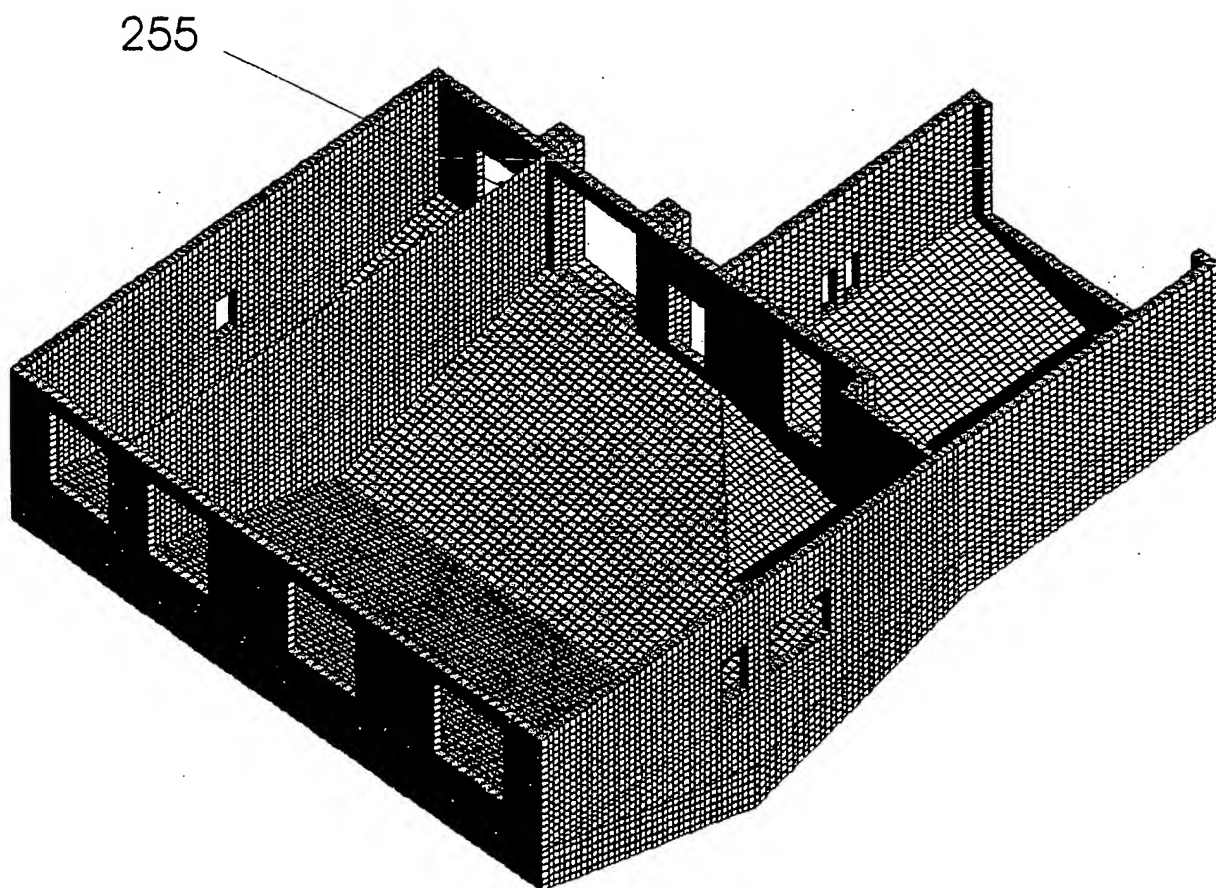


Fig. 73

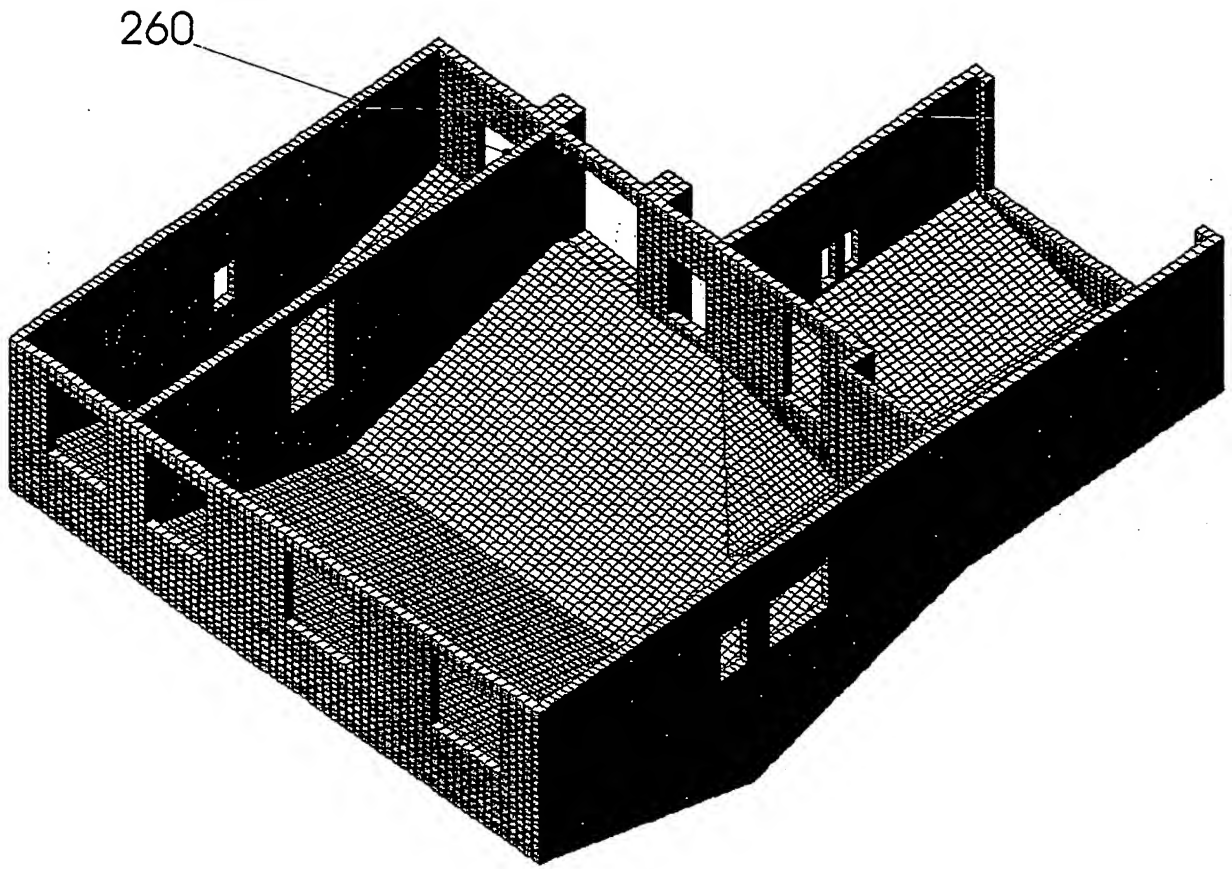


Fig.74

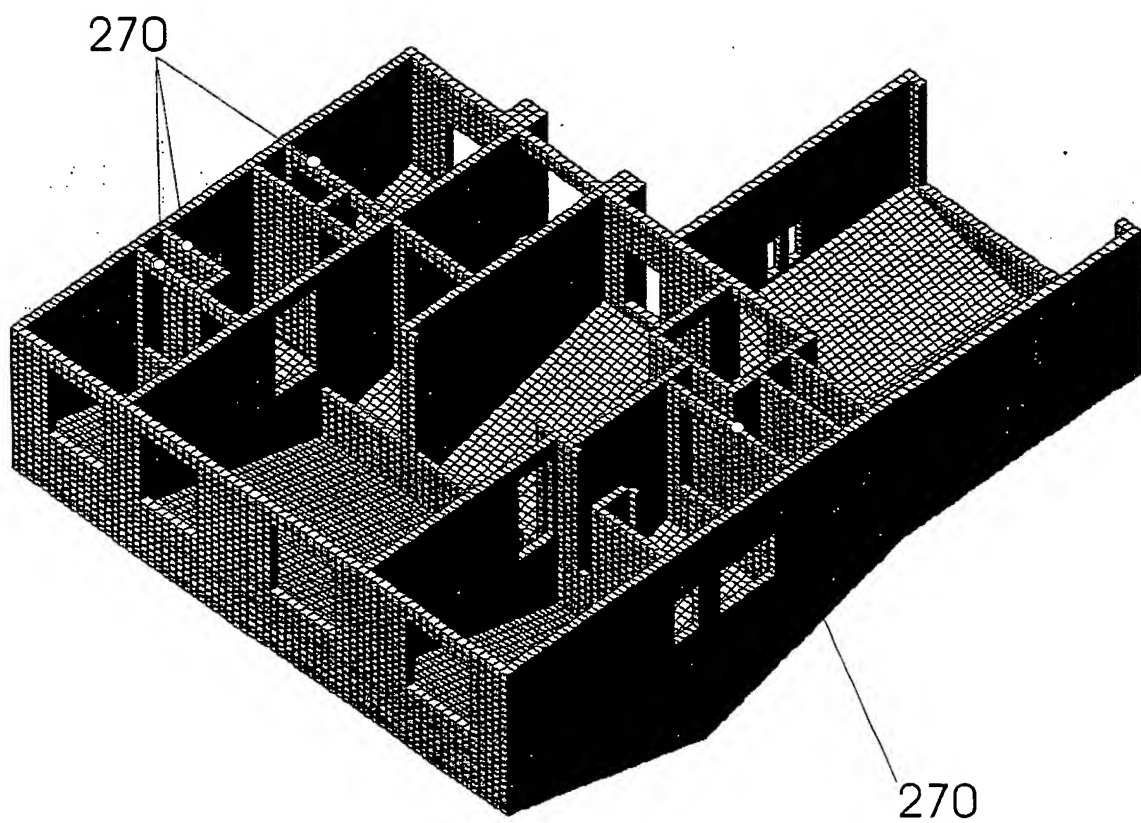


Fig.75

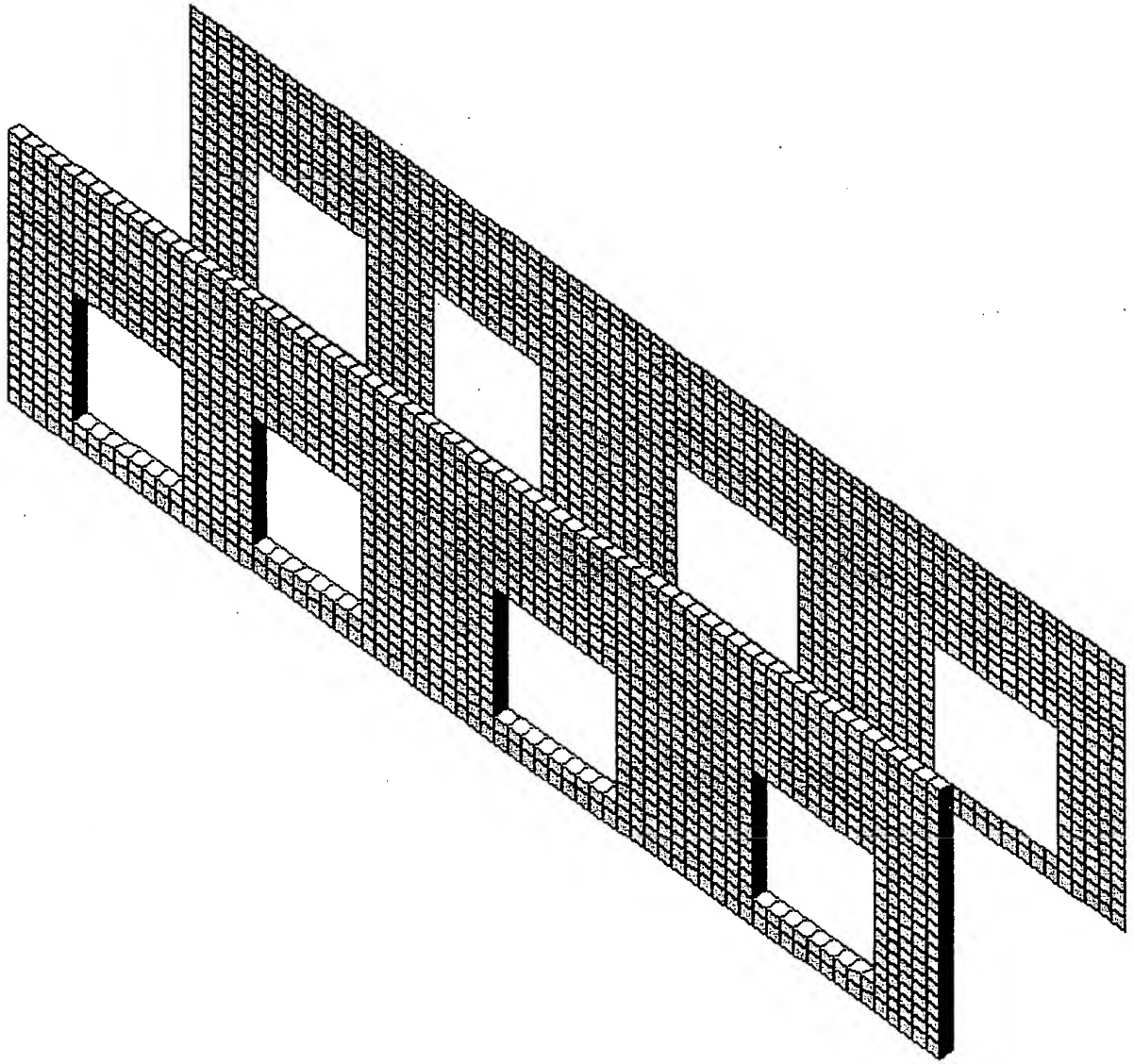


Fig.76

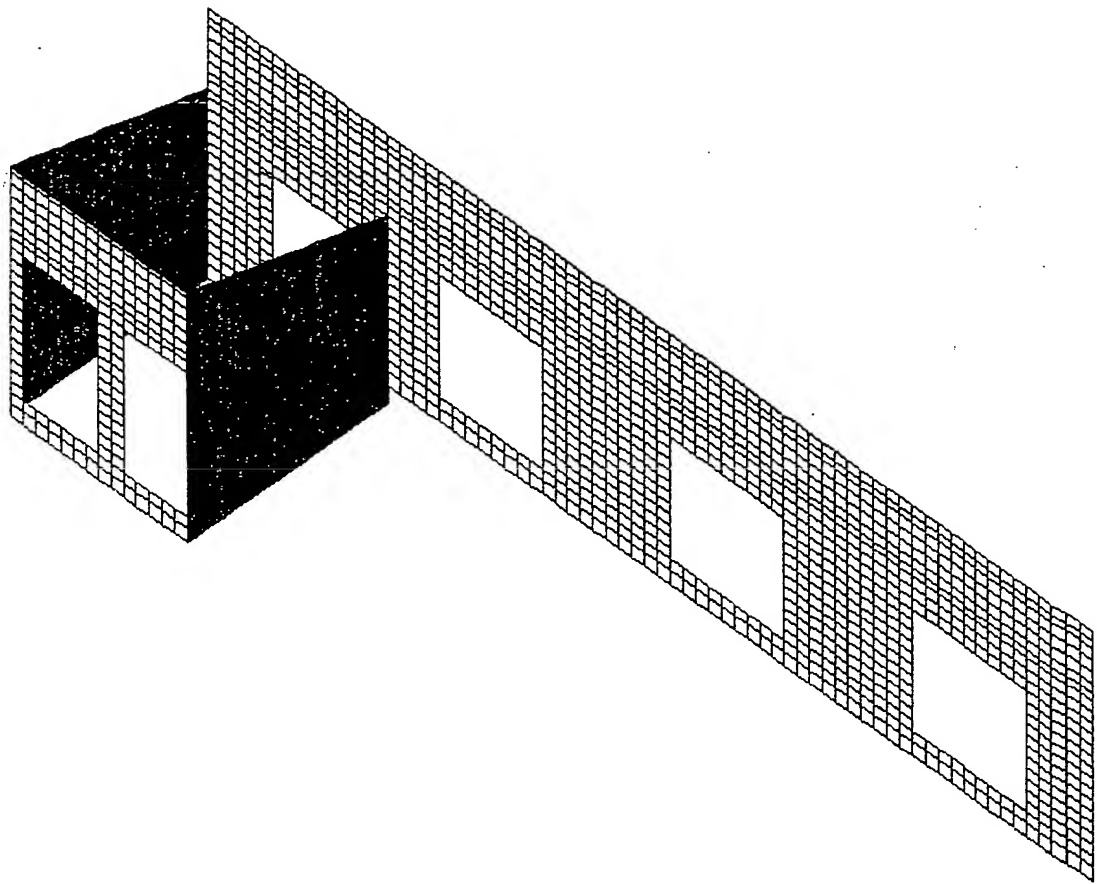


Fig.77



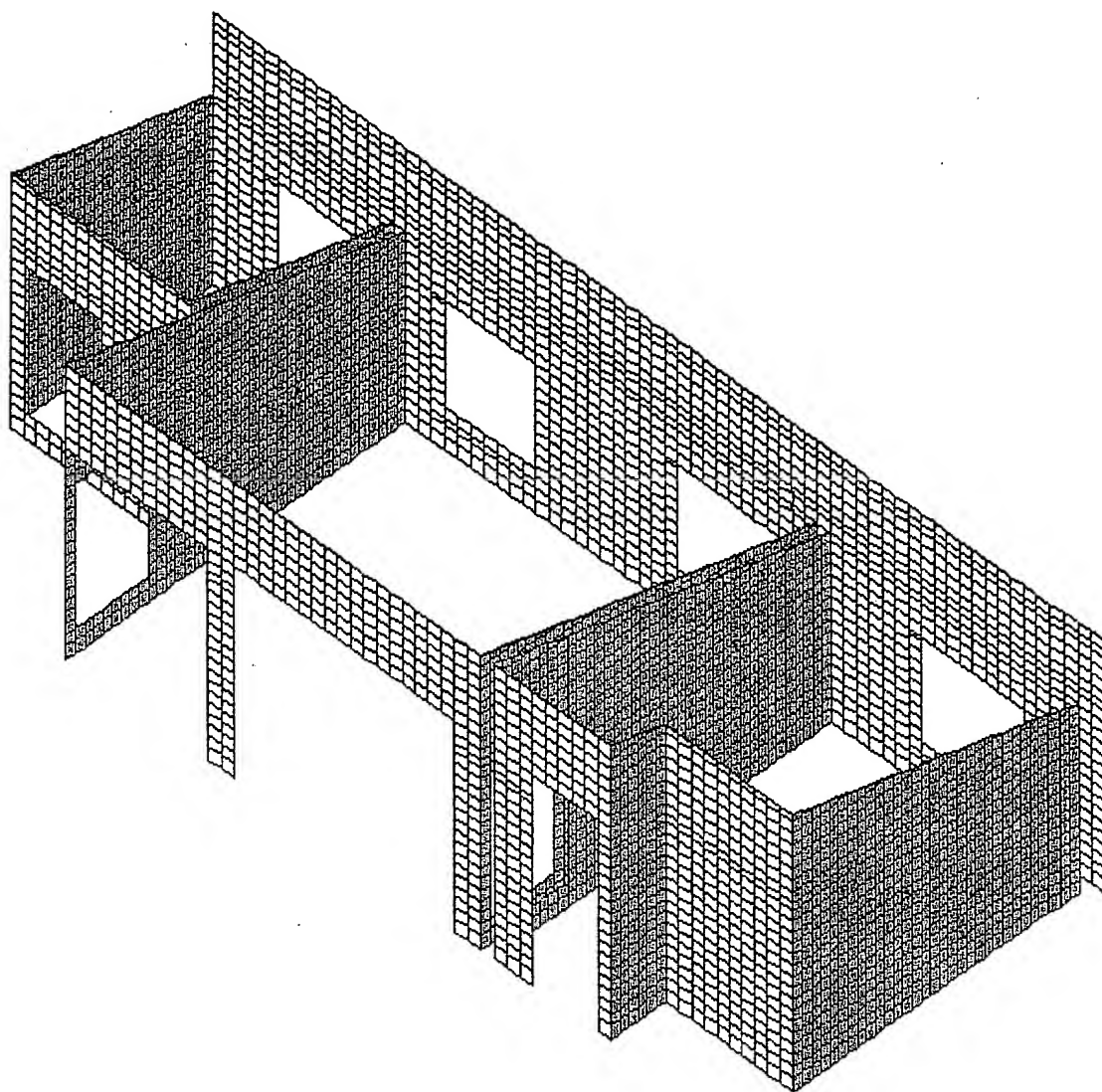


Fig.78

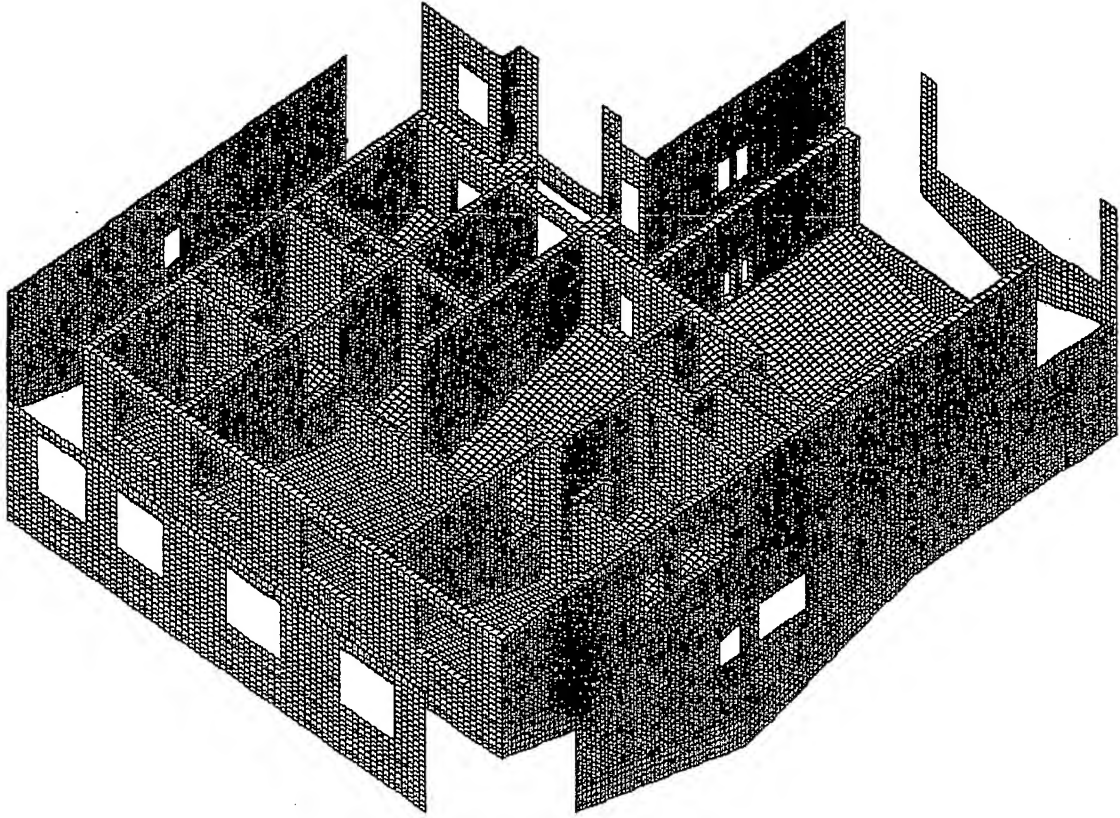


Fig.79

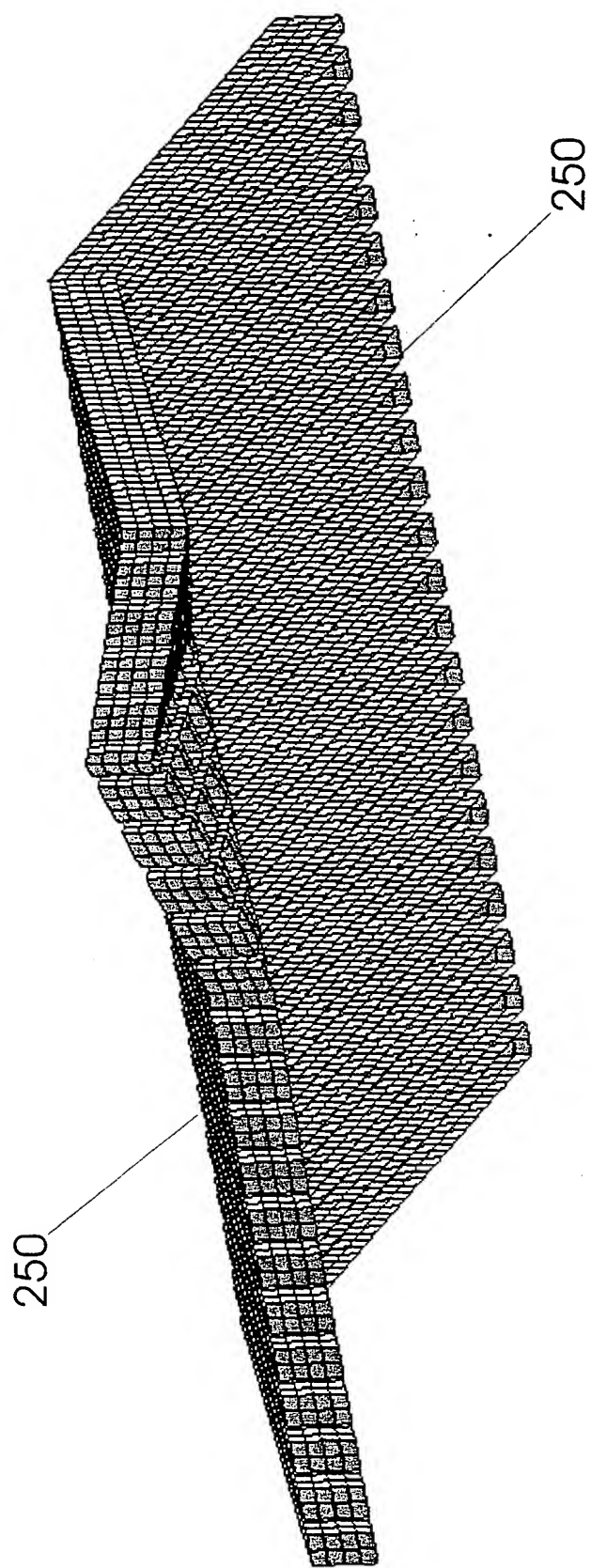


Fig.80

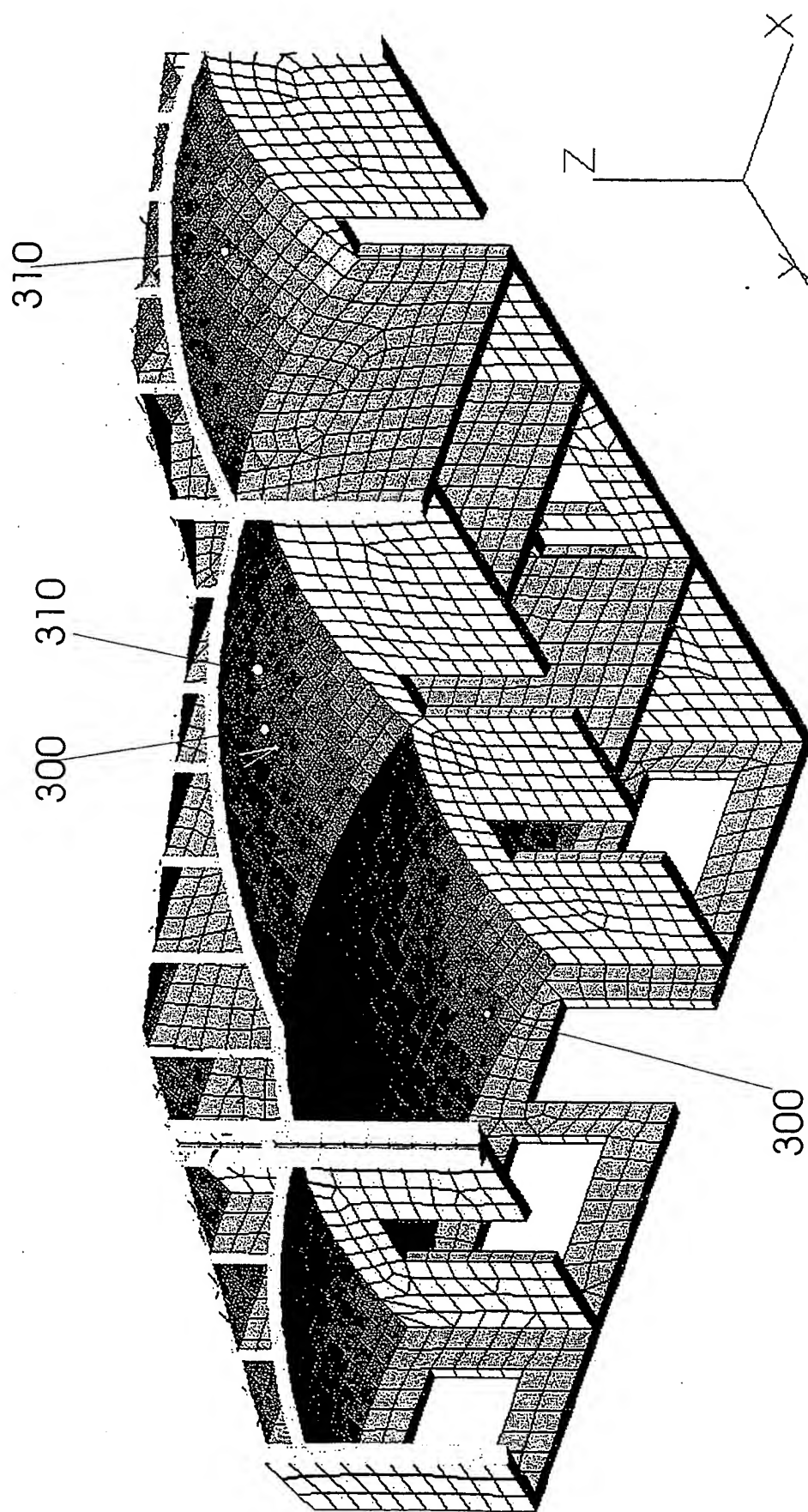


Fig. 81

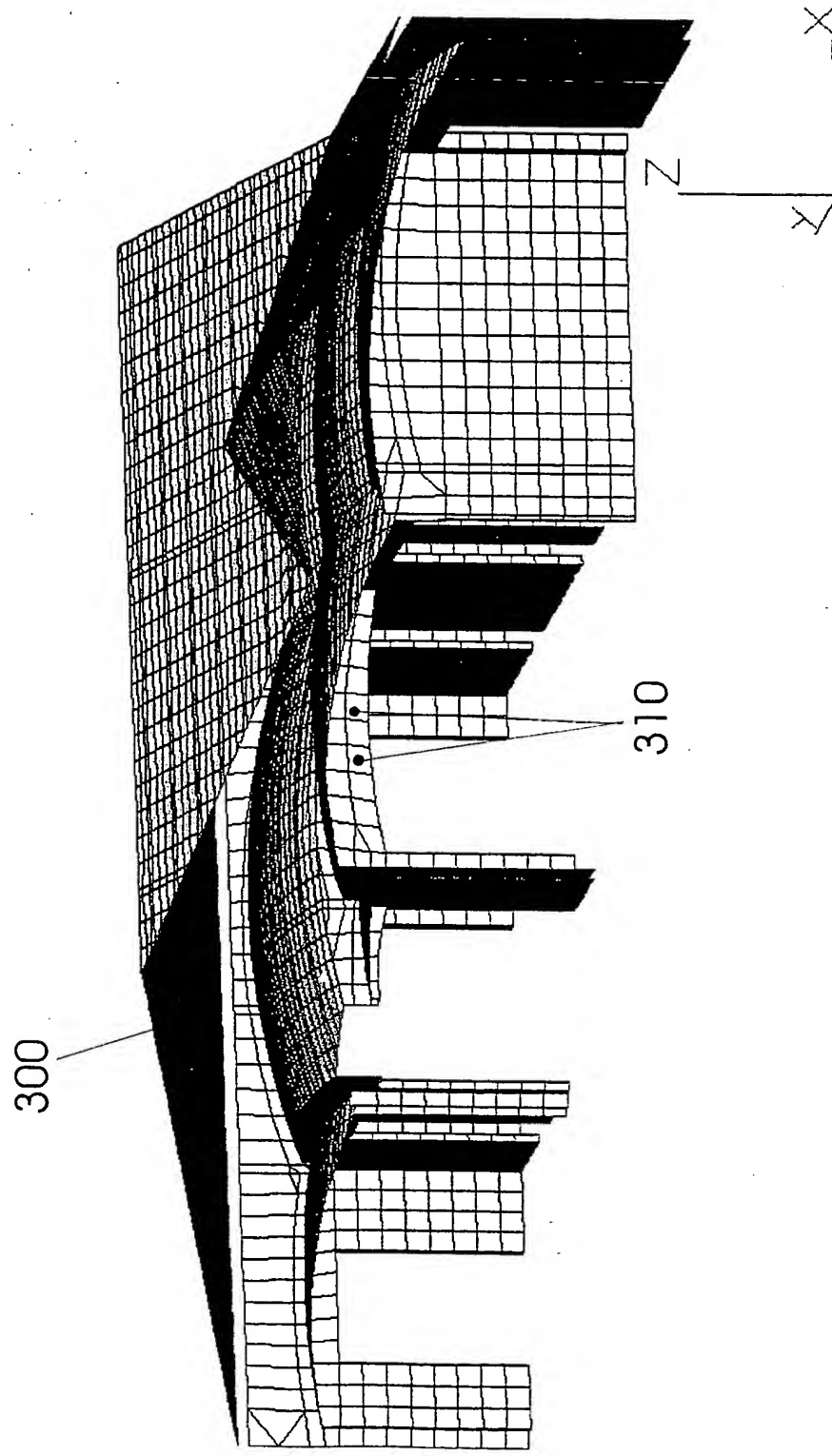


Fig. 82

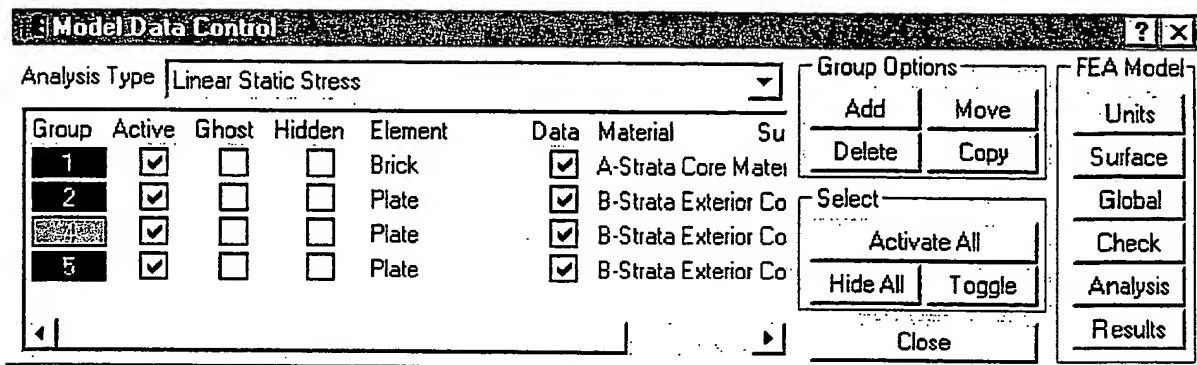


Fig.83

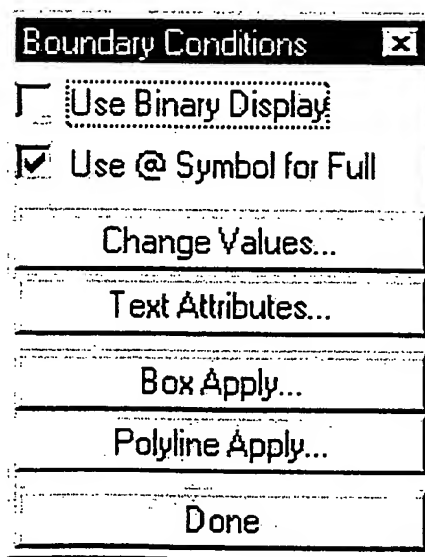


Fig.84

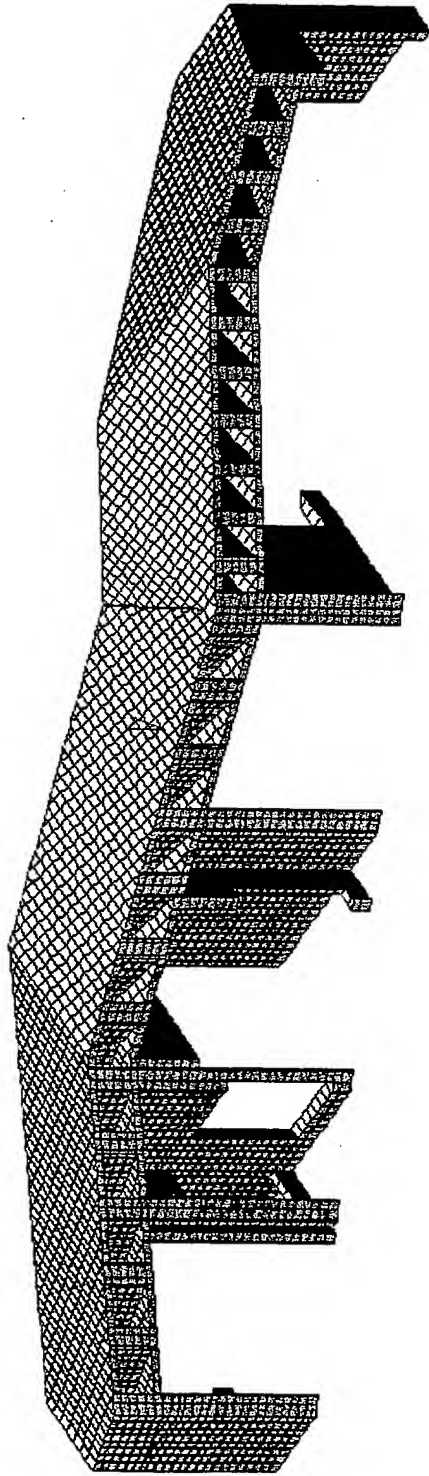


Fig.85

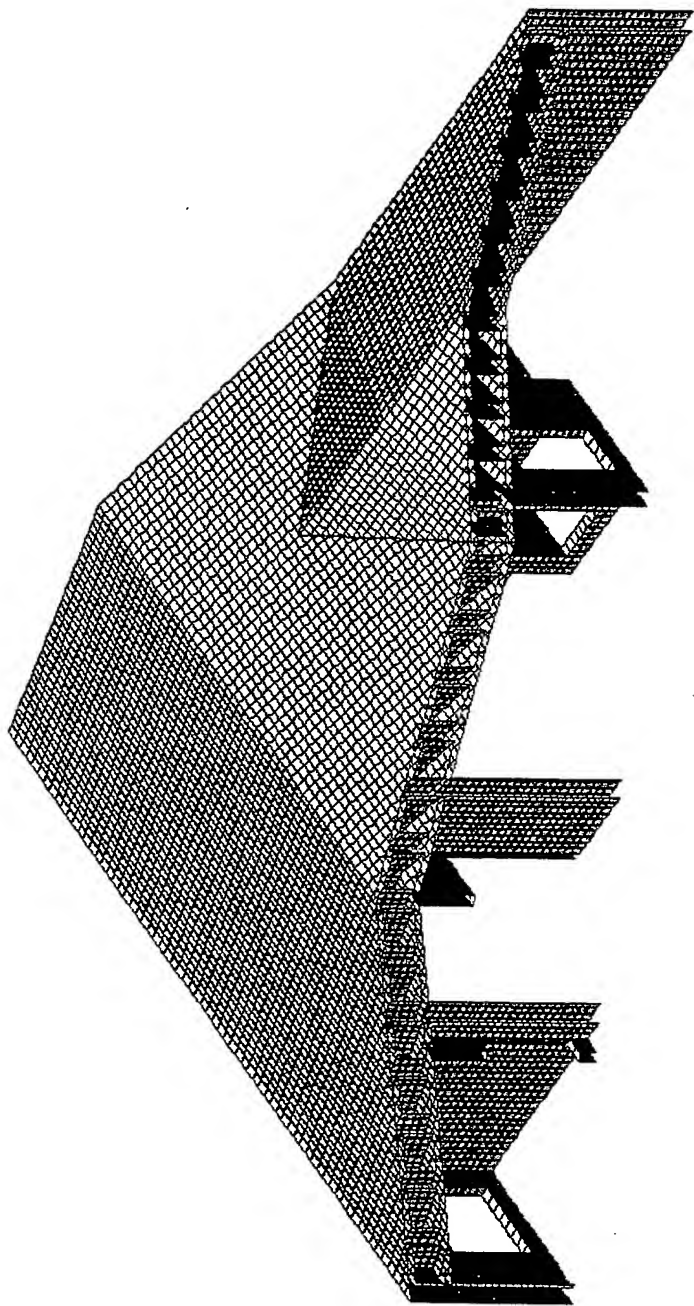


Fig. 86




**Material Property Entry**

Material Library: NS\_Technology Material Model: Standard

Material Name: A-Strata Core Material

Material Description: None

Unlock Properties 

<b>Elastic Properties</b> Modulus of Elasticity 280 lbf/in <sup>2</sup> Poisson's Ratio 0.126 Shear Modulus of Elasticity 124 lbf/in <sup>2</sup> Thermal Coefficient of Expansion 0.000035 1/°F		<b>General Properties</b> Damping 0	
<b>Plastic Properties</b> Ultimate Stress 0 lbf/in <sup>2</sup> Yield Stress 0 lbf/in <sup>2</sup> Elongation at 2 in. 0 %		<b>Densities</b> Mass Density 2.02187e-6 lbf*s <sup>2</sup> /in <sup>3</sup>	
		<b>Electrical Properties</b> Electrical Conductivity 0 A/(V*in) Dielectric Constant 0	
		<b>Thermal Properties</b> Thermal conductivity 0 in*lb/(s*in*°F) Specific heat 0 in*lb/(lb*s <sup>2</sup> /in*°F)	

Reload From Library

Reset From Default

OK Cancel Apply Print


**Fig.87**

**Material Property Entry**

Material Library: NS\_Technology Material Model: Standard

Material Name: B-Strata Exterior Coating

Material Description: None

Unlock Properties 

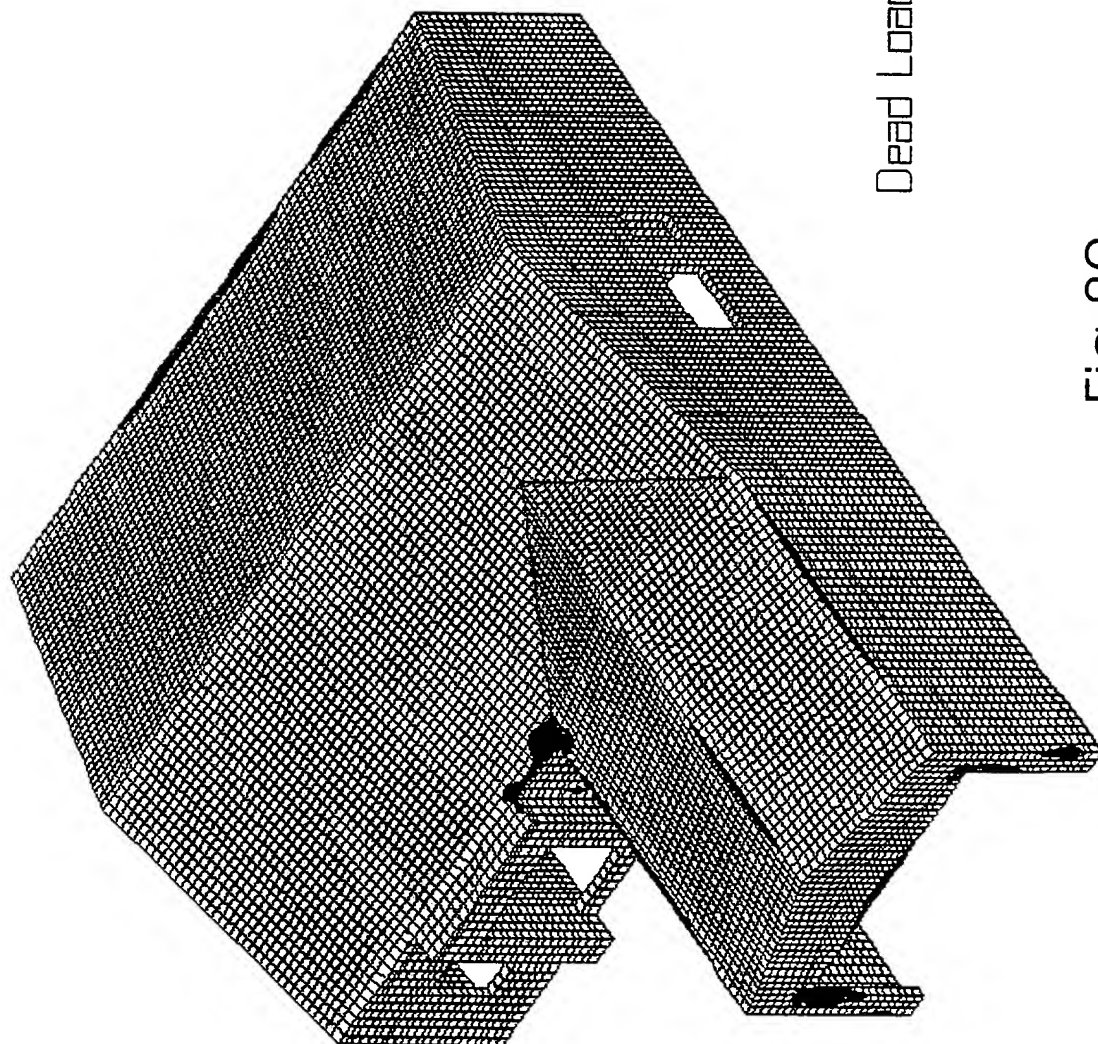
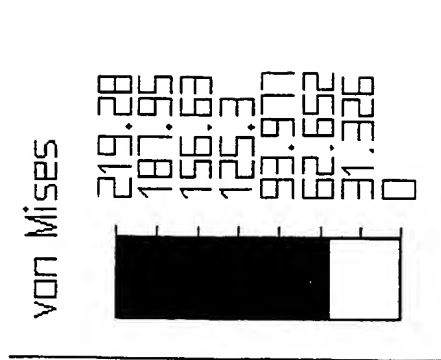
<b>Elastic Properties</b> Modulus of Elasticity 2.5e6 lbf/in <sup>2</sup> Poisson's Ratio 0.18 Shear Modulus of Elasticity 2.12e6 lbf/in <sup>2</sup> Thermal Coefficient of Expansion 9e-6 1/°F		<b>General Properties</b> Damping 0	
<b>Plastic Properties</b> Ultimate Stress 3000 lbf/in <sup>2</sup> Yield Stress 1200 lbf/in <sup>2</sup> Elongation at 2 in. 0 %		<b>Densities</b> Mass Density 1.947e-4 lbf*s <sup>2</sup> /in <sup>3</sup>	
		<b>Electrical Properties</b> Electrical Conductivity 0 A/(V*in) Dielectric Constant 0	
		<b>Thermal Properties</b> Thermal conductivity 0 in*lb/(s*in*°F) Specific heat 0 in*lb/(lb*s <sup>2</sup> /in*°F)	

Reload From Library

Reset From Default

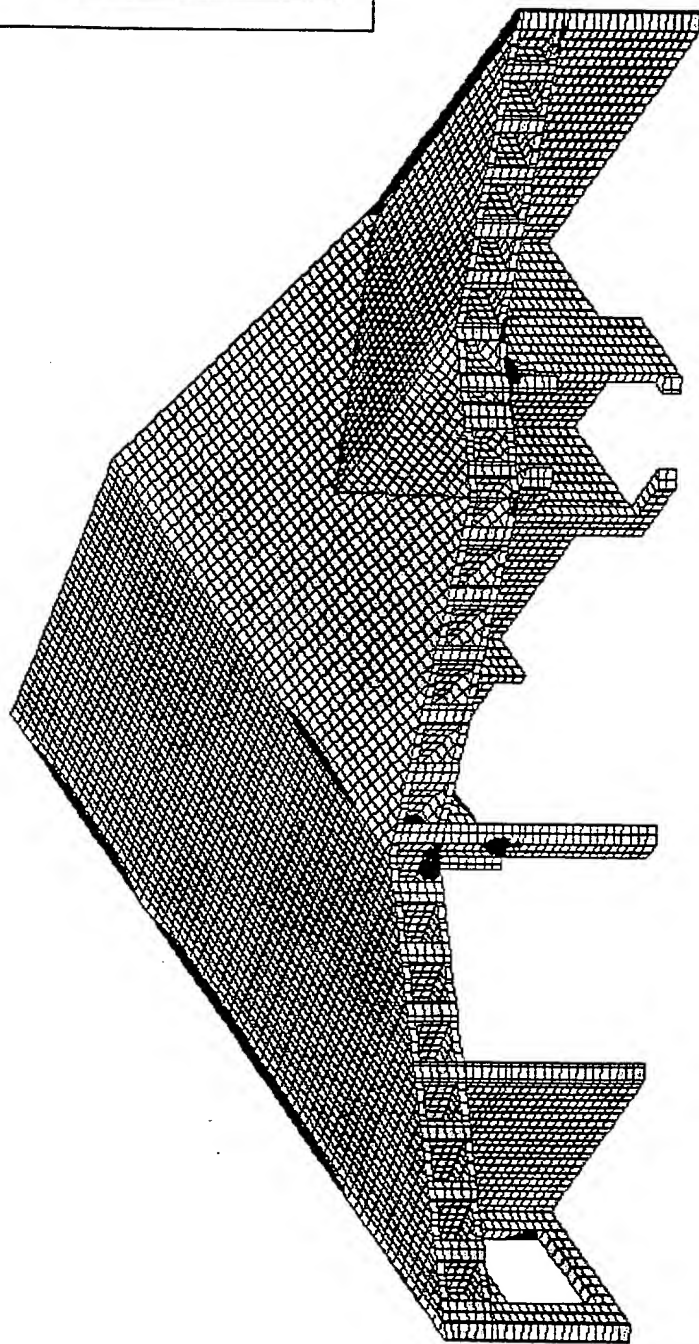
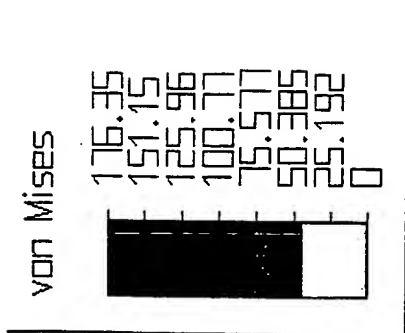
OK Cancel Apply Print

**Fig.88**



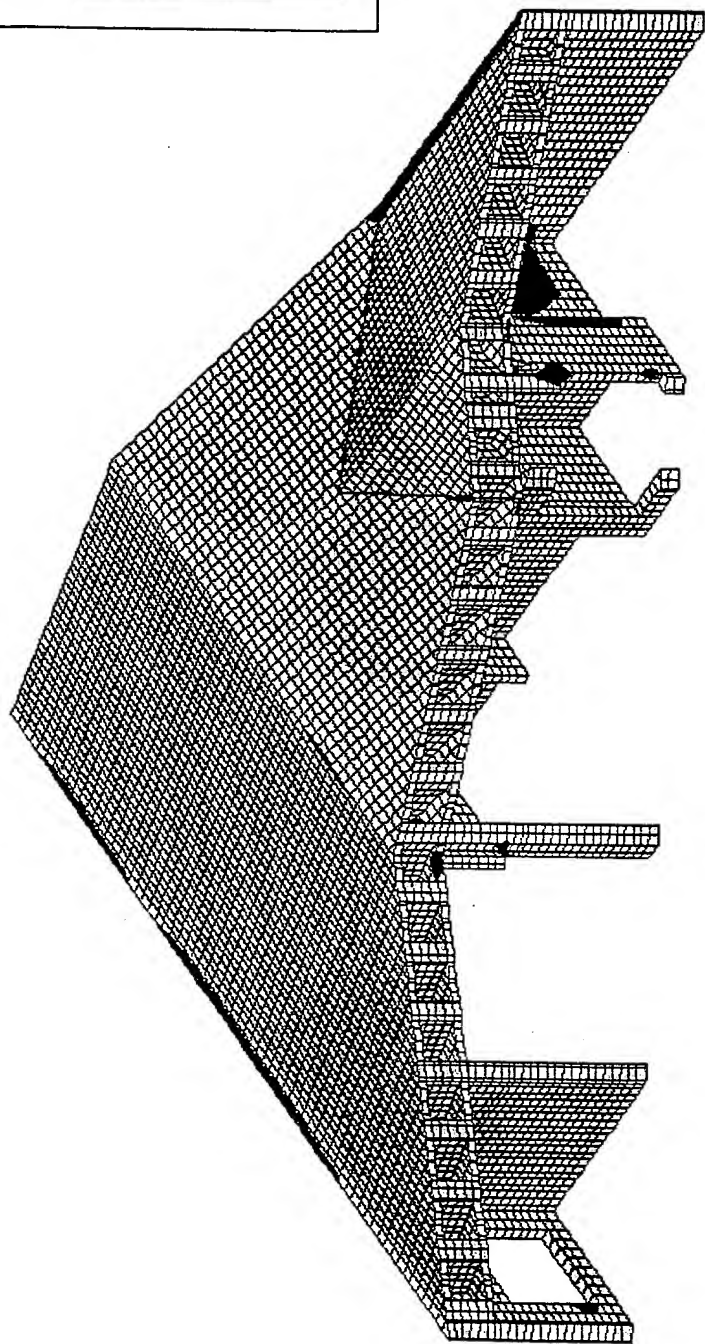
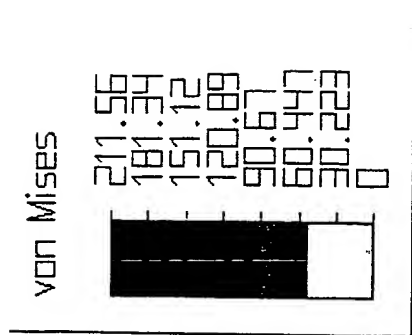
Dead Load Stress, psi

Fig.89



Dead Load Stress, psi

Fig.90



Wind Load Stress, psi

Fig.91

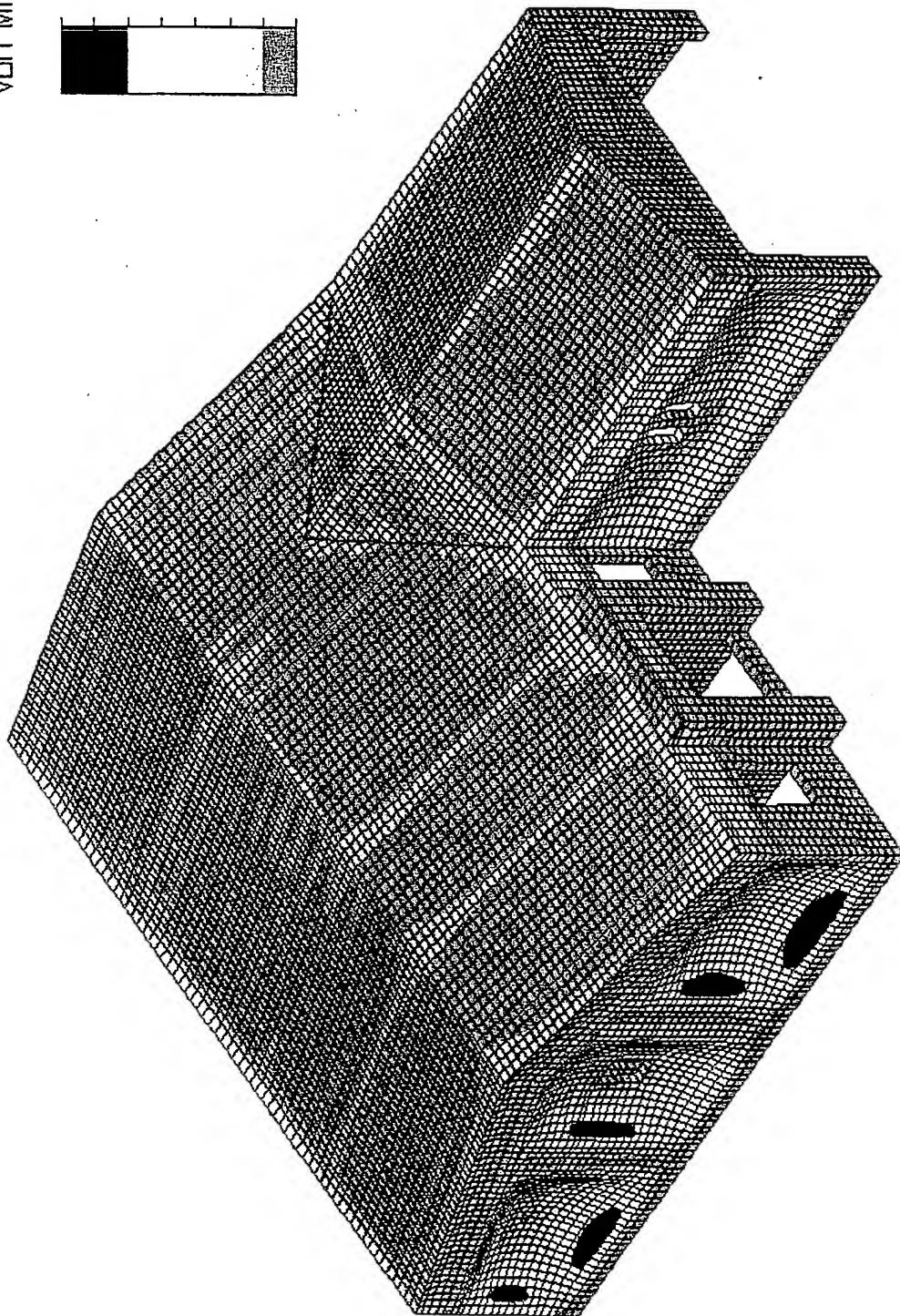
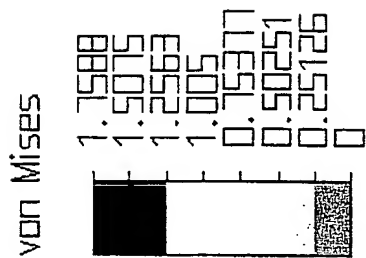
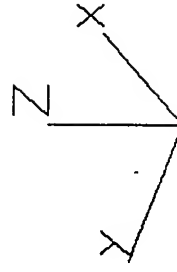
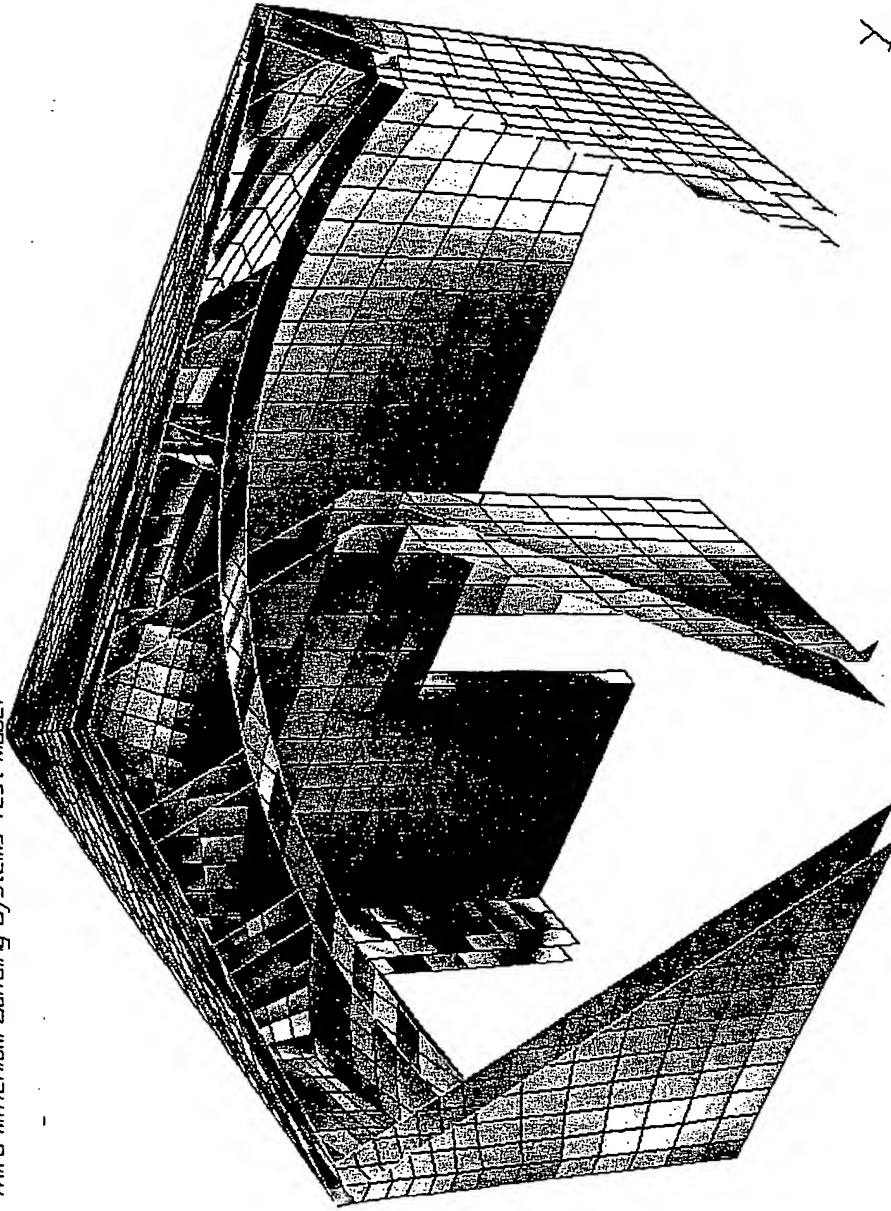
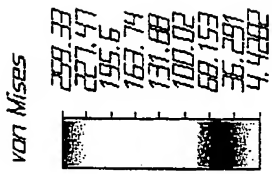


Fig.92

Strata Third Millennium Building Systems Test Model



Scale: 1.00e+000, Step: 235, Time: 4.5 sec  
by Integra Engineering, 27-NOV-2000 05:22

Fig. 93

**Nodal Forces**  
**Wind and Snow, (lbs/node)**

Load Area	Area, in2	# of Nodes	F/Node	Window	Window Nodes	F/Nodes	Case
West wall	78,630	2019	6.76	955.08	20	8.29	2 & 4
Entrance Left	3,802	92	7.17				
Garge Lower	36,314	738	8.54	672	16	7.29	2 & 4
Garage Roof	12,351	979	2.19				2 & 4
Snow Garage Roof	81,846	1903	8.96				3
Snow Garage Roof	81,846	1903	6.72				4
Snow Main Roof	235,000	5275	9.28				3
Snow Main Roof	235,000	5275	6.96				4
Single LL			300				5

Fig.94

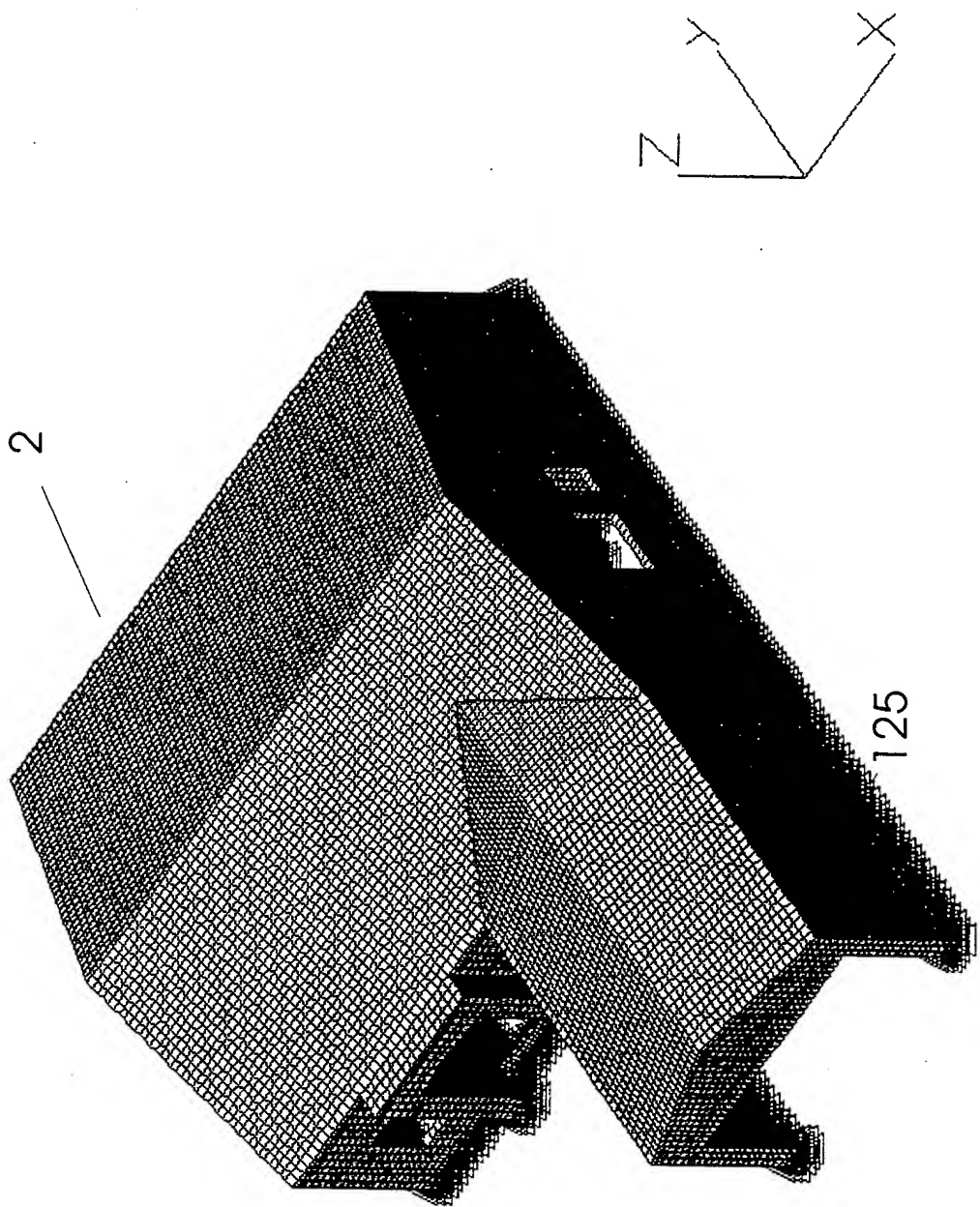


Fig. 95



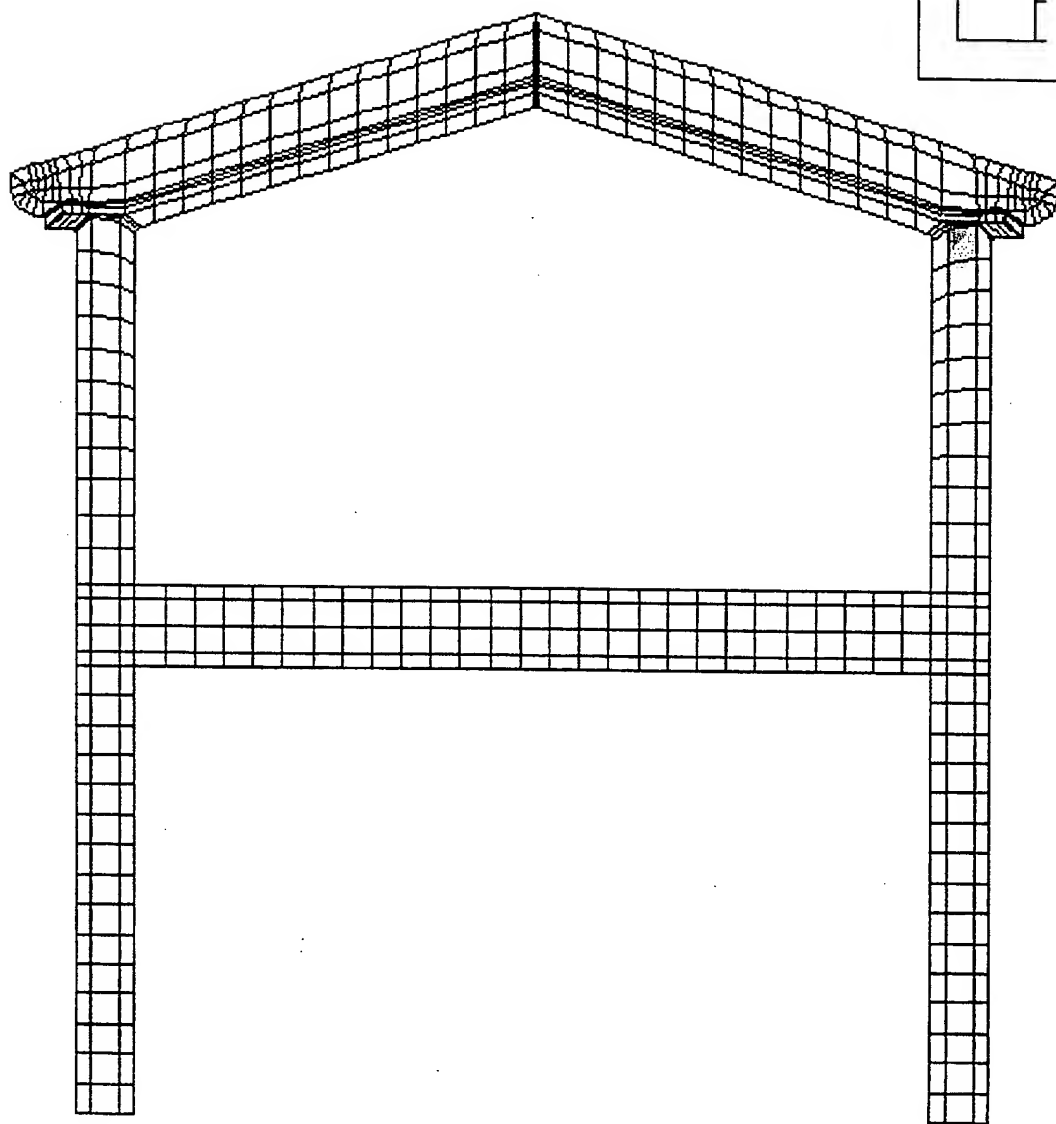


Fig.96

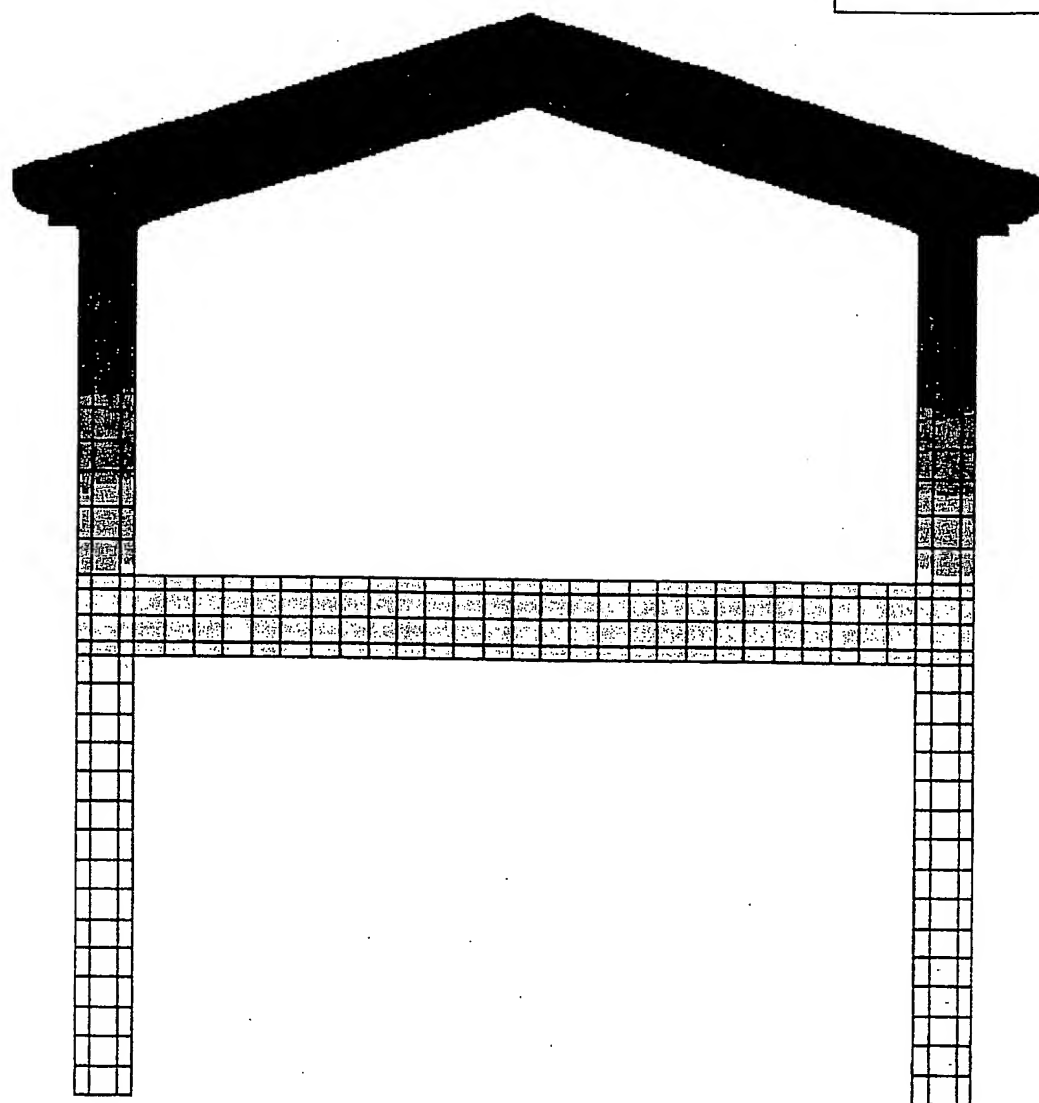


Fig.97